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A

CATALOGUE

OF

3007 STARS,

FOR THE EQUINOX

1890·0,

FROM OBSERVATIONS MADE AT THE

ROYAL OBSERVATORY, CAPE OF GOOD HOPE,

DURING THE YEARS

1885 TO 1895:

UNDER THE DIRECTION OF

DAVID GILL, C.B., LL.D., F.R.S., HON. F.R.S. ED., &c.,
HER MAJESTY'S ASTRONOMER AT THE CAPE.

WITH APPENDICES:—

I.—COMPARISON WITH OTHER CATALOGUES.

II.—MERIDIAN OBSERVATIONS OF α CANIS MAJORIS, α CANIS MINORIS, β CENTAURI, α^1 & α^2 CENTAURI.

III.—POSITIONS OF SOUTHERN CIRCUMPOLAR STARS.

PUBLISHED BY ORDER OF THE LORDS COMMISSIONERS OF THE ADMIRALTY, IN OBEDIENCE TO HER MAJESTY'S COMMAND.

LONDON:
PRINTED FOR HER MAJESTY'S STATIONERY OFFICE,
BY DARLING & SON, LTD., 1, 2, & 3, GREAT ST. THOMAS APOSTLE, E.C.

1898.

QB36
C34
1890

GENERAL
S3

ERRATA.

Page 44, No. 743. *Insert* † after No.

Page 45, No. 757. Sec. Var., *for* — 0″·60 *read* — 0″·50.

Page 46, No. 790. Mean R.A. *for* 18ˢ·949 *read* 18ˢ·839.

Page 47, No. 803. Melbourne 1880, *insert* 391.

Page 69, No. 1162. Melbourne 1880, *insert* 576.

Page 72–73, No. 1234. Annual Proper Motion, *insert* †.

Page 107, No. 1839. Mean Dec. 1890·0, *for* 24″·16 *read* 32″·24.

Page 118, No. 2064. No., *for* 2964 *read* 2064.

Page 133, No. 2281. Mean Dec. 1890·0, *insert* 5°.

Page 163, No. 2811. Sec. of Final Dec., *for* 36″·52 *read* 56″·52.

Page 166, No. 2882. Star's Name, *for* Lalande *read* Lacaille.

Page 172, No. 2990. Sec. Var., *for* — 0ˢ·354 *read* — 0ˢ·292.

Page 188, No. 426. Mean Dec., Cape 1880, *for* 37″·09 *read* 38″·09.

Page 198, No. 1045. Mean Dec., Cape 1880, *for* 7″·23 *read* 7″·43.

Page 202, No. 1292. Mean Dec. Cape 1880, *for* 43″·42 *read* 45″·42.

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CAPE

GENERAL CATALOGUE OF STARS

FOR

1890·0.

Introduction.

The results contained in the following Catalogue are based upon observations made with the Cape Transit-Circle from 1885 August 17, to 1895 December 31. They represent the Mean Right Ascensions and Declinations of the Stars at the Mean Epoch of observation, reduced *without Proper Motion* to the Equinox 1890·0.

The Declinations printed on the right-hand pages in the columns marked "Mean Dec. 1890·0" are not the definitive Declinations of the Catalogue, the seconds of the definitive results are given in the adjoining column marked "Sec. of Final Dec." and include daily corrections for change of latitude, as well as corrections for the systematic errors of Bessel's Refraction Tables.

The working list for this Catalogue was formed of the following classes of Stars :—

Stars of the 4th magnitude, or brighter, which can be conveniently observed from the Cape, and all Stars additional to these likely to be required for future use in any of the National Ephemerides.

Southern Circumpolar Stars.

Stars employed in the Latitude and Longitude operations connected with the Geodetic Survey.

Stars employed as Comparison Stars in the Heliometer observations of the Minor Planets *Iris*, *Victoria* and *Sappho*, in 1888 and 1889, and the opposition of Mars in 1892.

Stars observed with the Zenith-Telescope.

Comet-Comparison Stars.

Stars occulted by the Moon.

Explanation of the Separate Columns of the Catalogue.

Left-Hand Page.

"No." is the rotation number. An asterisk (*) attached to this number signifies that the Star is one of the Fundamental Stars for the zones of Schönfeld's *Durchmusterung* (*Ast. Nach.* 2890–91); a dagger (†), that the Star is one of the Fundamental Stars for subsequent meridian observation of the zones of the Cape *Durchmusterung*, between 20° and 80° of South Declination. (Auwers, *Monthly Notices* R.A.S., Vol. XLVII., pp. 455–473, and *Ast. Nach.* 3431–32.) When the Star belongs to both these lists the asterisk only is affixed, and the note "Fundamental Star for Southern Zones" is printed at the bottom of the page.

"Bradley or Lacaille."—This column gives the corresponding number in Auwers' "*Neue Reduction der Bradleyschen Beobachtungen*," or that in the British Association Catalogue of Lacaille's observations—"*Catalogue of* 9766 *Stars in the Southern Hemisphere.*"

When the Star is in one of these Catalogues only, the numeration or the Declination is sufficient to indicate to which of the two Catalogues it belongs; when the Star is in both Catalogues the Bradley number is given with an asterisk attached.

"Piazzi."—This column gives the Hour and Number in Piazzi's Catalogue (Edition of 1814).

"B.A.C."—The number in the British Association Catalogue of 8377 Stars.

"C.G.A."—The number in Gould's "Catalogo General Argentino."

"Star's Name."—For Stars contained in Auwers' Bradley the nomenclature of that work has been retained, only substituting *Argûs* or *Puppis* for *Navis*. For Stars not in Auwers' Bradley the nomenclature of the Fundamental lists (*Ast. Nach.* 2890 and *Monthly Notices* R.A.S., Vol. XLVII., p. 455) was adopted. For all other Stars between the South Pole and Declination −23°, the nomenclature of the Argentine General Catalogue was

employed, and for Stars North of Declination $-23°$ that of the British Association Catalogue. The only exceptions to these rules are a very few close Circumpolar Stars which are designated by letters long in use at the Cape.

For Stars otherwise unnamed the Catalogue number is referred to in the following order of preference :—

(1.) Auwers' Bradley, referred to as Bradley.

(2.) British Association Catalogue of Lacaille's observations, referred to as Lacaille.

(3.) The Hour and Number in Piazzi's Catalogue (Edition of 1814).

(4.) Lalande's Catalogue, published by the British Association.

(5.) The Hour and Number in Weisse's Catalogues of the Stars in Bessel's zones, the zones $-15°$ to $+15°$ being referred to as W.B., and the zones $+15°$ to $+45°$ as W.B. (2).

(6.) Brisbane's Catalogue.

(7.) Gould's "Catalogo General Argentino," referred to as C.G.A.

(8.) The Cape Catalogue of 12,441 Stars referred to as Cape (1880).

(9.) The Hour and Number in the Cordoba Zone Catalogue referred to as C.Z.

(10.) The *Bonner Durchmusterung* referred to as B.D.

(11.) The *Cape Photographic Durchmusterung*, referred to as C.P.D.

(12.) The *Cordoba Durchmusterung*, referred to as Cor. D.

(13.) Gilliss' Zones of 16,748 Southern Circumpolar Stars, referred to as Gilliss P.Z.

All notes respecting nomenclature are given on the left-hand page.

"Magnitude."—For Stars North of Declination $-30°$ the magnitudes (unmarked) are taken from the *Harvard Photometry*, and South of that Declination from the *Southern Meridian Photometry*.

Magnitudes marked * are taken from the the C.G.A. or C.Z., those marked † from B.D., and those marked ‡ from other authorities which are quoted in the notes at the foot of the right-hand page.

Where doubt exists whether the "mass" or a component of a Double Star was observed, an asterisk is inserted instead of the magnitude.

The particulars respecting Variable Stars are from Chandler's Catalogue (*Astron. Journal*, No. 379), unless otherwise stated.

"Mean Date."—The mean epoch of observation in R.A. expressed in years from 1800.

"No. of Obs."—The number of observations in Right Ascension.

"Mean R.A. 1890·0."—The formation of the Right Ascension is explained, pp. xii and xiii; the results here given refer to the mean epoch of observation and the Equinox 1890·0.

"Annual Precession 1890·0."—The Precession in R.A. was computed from the formula—

$$3^s\cdot0725 + 1^s\cdot3369 \sin \alpha \tan \delta.$$

"Secular Variation 1890·0."—For Stars between Declination 0° and 60° the Secular Variations were taken from MSS. tables. For other Stars the values have been computed by the formula—

$$A + B \tan \delta + C \tan^2 \delta$$

where—

$$A = 0^s\cdot00190 + 0^s\cdot00650 \sin 2\alpha$$
$$B = -0^s\cdot00057 \sin \alpha + 0^s\cdot02987 \cos \alpha$$
$$C = +0^s\cdot01300 \sin 2\alpha.$$

"Annual Proper Motion μ_α."—Proper Motions without mark or note were taken, in the order named, from Auwers' determinations in *Ast. Nach.* 3431, "Mayer," *Ast. Nach.* 2890, "Bradley," and the Fundamental Catalogues (*Pub. der Ast. Gesellschaft*). Those taken from the Cape Catalogue 1880. are marked with an asterisk without note, from the Radcliffe Catalogue 1890 with an asterisk and noted. Those from other sources are marked with a dagger accompanied by a corresponding foot-note on the right-hand page, quoting the authority on which they depend.

"Corr. for μ_α to 1890·0."—For the convenience of Astronomers who may desire to compare this Catalogue with others reduced to the Epoch and Equinox 1890·0, this column gives the correction to be applied on account of Proper Motion to the R.A. of the present Catalogue, to reduce the Catalogue place from the epoch of observation to the Epoch 1890·0.

Right-Hand Page.

"No."—An asterisk (*) attached to this number signifies that there is a foot-note referring to the star. A dagger (†) is used to denote a double star, particulars of which are given in a foot-note.

"Mean Date."—The mean epoch of observation expressed in years from 1800.

"No. of Obs."—The number of observations in Declination.

"Mean Dec. 1890·0."—The basis of the formation of these Declinations is fully explained at pp. xiv–xxii. Briefly, they represent the Declinations which result if it be assumed that Bessel's Refraction Tables are correct, and that the Latitude of the Observatory is invariable.

"Sec. of Final Dec."—These are the seconds of the Declination which are recommended for adoption. They include corrections for the systematic error of Bessel's Refraction Tables, and daily corrections for change of Latitude according to Albrecht. *See* pp. xxii–xxv.

"Annual Precession 1890·0."—The Precession in Declination was computed by the formula—

$$20''\cdot0530 \cos \alpha.$$

"Secular Variation 1890·0."—The formula employed was—

$$A^1 + B^1 \tan \delta$$

where—

$$A^1 = - 0''\cdot0086 \cos \alpha - 0''\cdot4480 \sin \alpha$$
$$B^1 = - 0''\cdot1950 \sin^2 \alpha.$$

"Annual Proper Motion μ_δ."—This column gives the Proper Motion in Declination. The authority for the adopted values is denoted in the same manner as for the Right Ascensions.

"Corr. for μ_δ to 1890·0."—This column gives the correction to be applied on account of Proper Motion to the Declination of the present Catalogue, in order to reduce the Catalogue place from the mean epoch of observation to the Epoch 1890·0.

"Fallows and Henderson."—Numbers printed in ordinary type refer to Fallows', those in italics to Henderson's Catalogue. An asterisk attached signifies that the Star occurs in both Catalogues, the number in Fallows' being given.

"Melbourne 1870 and 1880."—Numbers printed in ordinary type refer to the Melbourne Catalogue for 1870; those in italics to the Catalogue for 1880. An asterisk attached signifies that the Star occurs in both Catalogues, the number in the 1870 Catalogue being given.

The other columns of reference are sufficiently explained by their respective headings.

Right Ascensions.

The Fundamental Stars employed for determinations of Clock-Error are given in the following table. The adopted places are those of Auwers' *Fundamental Catalog für die Zonen Beobachtungen am Nordlichen Himmel*, which are given in the *Berliner Jahrbuch*.

TABLE I.

Right Ascensions of the Clock-Stars.

No. in Cape 1890.	Star's Name.	R.A. 1890·0 B.J.	Proper Motion in B.J.	Approx. Dec.	B.J. minus Greenw. 1890.	No. in Cape 1890.	Star's Name.	R.A. 1890·0 B.J.	Proper Motion in B.J.	Approx. Dec.	B.J. minus Greenw. 1890.
		h m s	s	° ′	s			h m s	s	° ′	s
18	γ Pegasi	0 7 34·277	−0·0007	+14 34	+0·032	318	ξ^2 Ceti	2 22 18·605	+0·0011	+ 7 58	+0·040
30	ι Ceti	13 49·373	−0·0032	− 9 26	+ ·033	344	δ Ceti	33 50·655	+0·0004	− 0 9	+ ·048
46	12 Ceti	24 25·502	−0·0003	− 4 34	+ ·044	356	γ Ceti	37 36·020	−0·0114	+ 2 46	+ ·031
73	β Ceti	38 4·074	+0·0147	−18 35	+ ·019	358	π Ceti	38 53·211	−0·0028	−14 19	...
85	δ Piscium	42 58·493	+0·0035	+ 6 59	+ ·034	359	μ Ceti	38 59·675	+0·0164	+ 9 39	...
130	ε Piscium	57 14·030	−0·0070	+ 7 18	+ ·031	376	η Eridani	51 3·205	+0·0037	− 9 20	...
184	θ Ceti	1 18 31·508	−0·0068	− 8 45	+ ·055	385	α Ceti	56 31·706	−0·0029	+ 3 39	− ·012
198	η Piscium	25 35·798	−0·0002	+14 47	+ ·027	420	ο Tauri	3 18 53·612	−0·0052	+ 8 38	+ ·062
219	ν Piscium	35 42·374	−0·0035	+ 4 56	+ ·027	423	ξ Tauri	21 12·451	+0·0032	+ 9 21	...
224	τ Ceti	38 57·433	−0·1223	−16 31	...	430	*f* Tauri	24 47·968	−0·0002	+12 34	+ ·026
225	ο Piscium	39 35·054	+0·0029	+ 8 36	+ ·033	438	ε Eridani	27 44·847	−0·0675	− 9 50	+ ·029
234	ζ Ceti	46 1·823	+0·0003	−10 53	+ ·028	462	δ Eridani	37 58·706	−0·0081	−10 8	+ ·031
238	ξ Piscium	47 51·637	+0·0004	+ 2 39	...	503	γ Eridani	52 53·810	+0·0029	−13 49	+ ·037
292	67 Ceti	2 11 29·784	+0·0036	− 6 56	+ ·021	504	λ Tauri	54 35·140	−0·0014	+12 11	...
300	ο Ceti	13 47·328	−0·0022	− 3 29	...	509	ν Tauri	57 18·286	+0·0001	+ 5 41	...

Right Ascensions of the Clock-Stars—*continued.*

No. in Cape 1890.	Star's Name.	R.A. 1890·0 B.J.	Proper Motion in B.J.	Approx. Dec.	B.J. minus Greenw. 1890.	No. in Cape 1890.	Star's Name.	R.A. 1890·0 B.J.	Proper Motion in B.J.	Approx. Dec.	B.J. minus Greenw. 1890.
		h m s	s	° ′	s			h m s	s	° ′	s
519	o^1 Eridani	4 6 29·763	−0·0006	− 7 7	+0·054	1168	π Leonis	9 54 24·020	−0·0040	+ 8 34	+0·020
534	γ Tauri	13 31·989	+0·0073	+15 22	+ ·062	1178	η Leonis	10 1 20·208	+0·0013	+17 18	...
540	δ Tauri	16 35·443	+0·0066	+17 17	...	1181	α Leonis	2 30·807	−0·0182	+12 30	+ ·003
547	ϵ Tauri	22 11·591	+0·0070	+18 56	+ ·026	1187	λ Hydræ	5 13·527	−0·0148	−11 49	...
552	α Tauri	29 36·485	+0·0035	+16 17	+ ·016	1213	μ Hydræ	20 46·222	−0·0098	−16 17	+ ·045
554	ν Eridani	30 49·305	−0·0023	− 3 35	...	1226	ρ Leonis.....	27 1·157	−0·0012	+ 9 52	+ ·033
562	53 Eridani.....	33 8·494	−0·0077	−14 31	...	1258	l Leonis.....	43 28·526	−0·0015	+11 8	+ ·031
574	μ Eridani	40 0·099	−0·0002	− 3 27	+ ·003	1285	χ Leonis.....	59 20·547	−0·0255	+ 7 56	+ ·007
588	π^3 Orionis	48 31·294	−0·0004	+ 2 16	...	1303	θ Leonis.....	11 8 28·049	−0·0059	+16 2	...
602	ι Tauri	56 31·222	+0·0040	+21 26	...	1311	δ Crateris	13 50·429	−0·0106	−14 11	+ ·008
611	β Eridani	5 2 26·508	−0·0066	− 5 14	...	1313	σ Leonis	15 27·870	−0·0071	+ 6 38	...
624	β Orionis	9 15·057	−0·0012	− 8 20	·000	1340	υ Leonis	31 18·977	−0·0018	− 0 13	+ ·032
639	γ Orionis	19 13·825	−0·0019	+ 6 15	...	1354	β Leonis	43 26·913	−0·0356	+15 11	+ ·008
651	δ Orionis	26 23·176	−0·0014	− 0 23	+ ·048	1356	β Virginis.....	44 57·889	+0·0481	+ 2 23	− ·001
654	α Leporis	27 52·696	−0·0011	−17 54	+ ·008	1374	o Virginis.....	59 36·354	−0·0159	+ 9 21	+ ·034
661	ι Orionis	30 3·123	−0·0007	− 5 59	...	1406	η Virginis.....	12 14 16·665	−0·0056	− 0 3	+ ·032
662	ϵ Orionis	30 37·859	−0·0018	− 1 16	− ·021	1425	δ Corvi	24 10·398	−0·0142	−15 54	+ ·076
676	ζ Leporis	41 58·267	−0·0018	−14 52	...	1435	24 Comæ	29 36·746	−0·0006	+18 59	...
678	κ Orionis	42 32·323	−0·0017	− 9 43	− ·019	1470	δ Virginis.....	50 3·709	−0·0336	+ 4 0	− ·019
689	α Orionis	49 12·966	+0·0008	+ 7 23	− ·003	1478	ϵ Virginis.....	56 42·072	−0·0192	+11 33	+ ·016
707	ν Orionis	6 1 17·480	−0·0003	+14 47	+ ·053	1487	θ Virginis.....	13 4 15·232	−0·0043	− 4 57	+ ·016
734	β Canis Majoris..	17 51·323	−0·0015	−17 54	+ ·033	1532	α Virginis.....	19 23·846	−0·0044	−10 35	+ ·001
735	8 Monocerotis ...	17 56·380	−0·0012	+ 4 39	...	1557	ζ Virginis.....	29 5·254	−0·0205	− 0 2	+ ·021
745	10 Monocerotis...	22 31·652	−0·0011	− 4 42	...	1585	τ Boötis.....	42 2·104	−0·0346	+18 0	+ ·047
757	γ Geminorum ...	31 21·441	+0·0023	+16 30	+ ·045	1591	89 Virginis	43 53·661	−0·0087	−17 35	...
770	ξ Geminorum ...	39 6·926	−0·0087	+13 1	+ ·036	1605	η Boötis...	49 26·832	−0·0049	+18 57	+ ·028
773	18 Monocerotis...	42 7·514	−0·0020	+ 2 32	...	1618	τ Virginis	56 2·867	−0·0005	+ 2 5	+ ·016
783	θ Canis Majoris...	49 4·743	−0·0105	−11 54	+ ·043	1642	κ Virginis.....	14 7 1·670	−0·0004	− 9 46	+ ·053
801	γ Canis Majoris...	58 46·873	−0·0018	−15 28	+ ·023	1653	ι Virginis	10 14·725	−0·0031	− 5 29	...
829	λ Geminorum ...	7 11 46·282	−0·0039	+16 44	...	1707	π Boötis	35 33·366	−0·0012	+16 53	...
921	χ Geminorum ...	56 45·728	−0·0025	+28 6	+ ·031	1714	μ Virginis.....	37 15·761	+0·0056	− 5 11	...
939	20 Puppis	8 8 16·613	−0·0020	−15 27	...	1721	109 Virginis.....	40 41·223	−0·0094	+ 2 21	...
942	β Cancri	10 32·976	−0·0044	+ 9 31	+ ·038	1731	α Libræ.....	44 47·562	−0·0093	−15 35	+ ·006
955	Bradley 1197 ...	20 9·815	−0·0058	− 3 33	..	1741	Piazzi XIV. 221	51 1·737	−0·0014	+14 53	...
999	δ Cancri.....	38 26·013	−0·0026	+18 33	...	1786	β Libræ.....	15 11 5·242	+0·0009	− 8 59	+ ·046
1003	ϵ Hydræ	40 57·045	−0·0135	+ 6 49	+ ·075	1828	γ Libræ.....	29 22·391	+0·0037	−14 25	...
1019	ζ Hydræ	49 34·751	−0·0073	+ 6 22	...	1863	α Serpentis	38 50·966	+0·0079	+ 6 46	+ ·001
1055	θ Hydræ	9 8 38·475	+0·0078	+ 2 47	...	1873	μ Serpentis	43 52·733	−0·0078	− 3 6	...
1065	83 Cancri	12 50·529	−0·0090	+18 10	+ ·056	1880	ϵ Serpentis	45 19·921	+0·0068	+ 4 49	− ·008
1093	α Hydræ	22 10·917	−0·0019	− 8 11	+ ·039	1910	β Scorpii	59 2·426	−0·0026	−19 30	+ ·080
1134	o Leonis.....	35 16·798	−0·0104	+10 24	+ ·053	1934	δ Ophiuchi	16 8 34·831	−0·0049	− 3 25	+ ·042
1153	6 Sextantis	45 41·478	+0·0005	− 3 44	...	1943	ϵ Ophiuchi	12 30·035	+0·0040	− 4 25	...

Right Ascensions of the Clock-Stars—*concluded.*

No. in Cape 1890.	Star's Name.	R.A. 1890·0 B.J.	Proper Motion in B.J.	Approx. Dec.	B.J. minus Greenw. 1890.	No. in Cape 1890.	Star's Name.	R.A. 1890·0 B.J.	Proper Motion in B.J.	Approx. Dec.	B.J. minus Greenw. 1890.
		h m s	s	° ′	s			h m s	s	° ′	s
1954	γ Herculis	16 17 4·022	−0·0049	+19 25	+0·015	2565	υ Capricorni.....	20 33 47·268	−0·0034	−18·32	...
1974	λ Ophiuchi	25 21·917	−0·0027	+ 2 14	+ ·042	2566	α Delphini	34 31·713	+0·0031	+15 31	+0·021
1983	ζ Ophiuchi	31 6·074	−0·0007	−10 21	+ ·021	2581	ε Aquarii	41 43·262	−0·0002	− 9 54	+ ·013
2025	49 Herculis	47 4·372	+0·0003	+15 10	...	2644	ν Aquarii	21 3 36·119	+0·0043	−11 49	...
2042	κ Ophiuchi	52 27·660	−0·0212	+ 9 33	+ ·006	2656	α Equulei	10 19·487	+0·0021	+ 4 48	+ ·007
2065	η Ophiuchi	17 4 4·131	+0·0003	−15 35	+ ·034	2690	β Aquarii	25 46·077	−0·0006	− 6 3	+ ·021
2082	α Herculis	9 37·888	−0·0019	+14 31	+ ·024	2712	γ Capricorni.....	33 59·788	+0·0119	−17 10	...
2102	θ Ophiuchi	15 15·208	−0·0024	−24 53	+ ·036	2719	ε Pegasi.....	38 47·003	+0·0008	+ 9 22	+ ·059
2136	α Ophiuchi	29 49·679	+0·0066	+12 38	+ ·017	2726	δ Capricorni.....	40 58·165	+0·0166	−16 38	+ ·048
2138	ξ Serpentis	31 17·252	−0·0050	−15 20	...	2763	α Aquarii	22 0 8·024	−0·0008	− 0 51	+ ·028
2156	β Ophiuchi	38 2·283	−0·0041	+ 4 37	+ ·015	2764	ι Aquarii	0 29·748	0·0000	−14 24	...
2199	ν Ophiuchi	52 58·226	−0·0021	− 9 46	...	2773	θ Pegasi	4 39·062	+0·0175	+ 5 39	...
2219	72 Ophiuchi.....	18 2 8·053	−0·0056	+ 9 33	+ ·006	2789	θ Aquarii	11 1·754	+0·0057	− 8 20	+ ·048
2245	η Serpentis	15 37·036	−0·0400	− 2 56	+ ·014	2797	γ Aquarii	15 58·465	+0·0068	− 1 56	+ ·036
2322	θ Serpentis	50 45·043	+0·0010	+ 4 4	...	2828	η Aquarii	29 42·217	+0·0042	− 0 41	+ ·047
2344	λ Aquilæ	19 0 24·647	−0·0038	− 5 3	...	2840	ζ Pegasi	35 58·552	+0·0044	+10 15	+ ·046
2368	ω Aquilæ	12 39·189	−0·0014	+11 24	+ ·032	2850	λ Pegasi	41 13·962	+0·0031	+22 59	...
2388	δ Aquilæ	19 57·117	+0·0153	+ 2 54	+ ·016	2859	λ Aquarii	46 52·518	−0·0016	− 8 10	+ ·011
2447	γ Aquilæ	41 1·787	−0·0005	+10 21	+ ·023	2864	δ Aquarii	48 48·718	−0·0051	−16 24	...
2459	α Aquilæ	45 24·967	+0·0351	+ 8 35	+ ·030	2880	α Pegasi	59 16·870	+0·0028	+14 37	+ ·020
2473	β Aquilæ	49 54·572	+0·0007	+ 6 8	+ ·028	2906	γ Piscium.....	23 11 27·742	+0·0487	+ 2·41	+ ·012
2508	θ Aquilæ	20 5 37·713	−0·0001	− 1 9	·000	2927	κ Piscium.....	21 17·581	+0·0041	+ 0·39	+ ·007
2518	α^1 Capricorni ...	11 33·026	−0·0008	−12 51	...	2932	70 Pegasi	23 35·459	+0·0013	+12 9	...
2520	α^2 Capricorni ...	11 57·068	+0·0022	−12 53	+ ·002	2951	ι Pisciuim.....	34 17·528	+0·0234	+ 5 2	+ ·049
2524	β Capricorni	14 49·852	+0·0008	−15 8	+ ·036	2957	ω^2 Aquarii	37 1·065	+0·0053	−15 9	...
2542	ρ Capricorni.....	22 35·186	−0·0028	−18 11	+ ·022	2978	φ Pegasi	46 53·482	−0·0033	+18 31	...
2550	ε Delphini.....	27 57·455	−0·0006	+10 56	+ ·027	2995	ω Piscium	53 39·736	+0·0087	+ 6 15	+ ·029
2561	β Delphini	32 23·419	+0·0055	+14 13	...						

The Right Ascensions of Clock-Stars are not included as determinations unless at least five observations of Clock-Stars have been obtained on the same night.

The Right Ascensions of Stars within 10° of the Pole have not been included as determinations unless either the Star has been observed both at upper and lower culmination, or the Azimuth has been otherwise strongly determined on the same night, that is to say, by double transits of other circumpolars, or by transits of at least four Circumpolar Stars (two above and two below Pole) whose places have been recently fundamentally determined.

Until 1889 June 2, observations of all Stars were made by "Eye and Ear," but on that date Chronographic observing was introduced and since that time has been employed, except for stars within 10° of the Pole, which have been observed by "Eye and Ear" throughout.

Personal Equation.

The ordinary corrections for Personal Equation, applicable to the determinations of Clock-Error as determined from time to time, are given in the Introductions to the volumes of *Cape Meridian Observations*, 1885 to 1895. The Clock-Rates from day to day are corrected for Personal Equation, but the Clock-Error as determined by the observer at the mean epoch of each set of observations has invariably been employed in the reduction of all the observations of that set. The resulting Right Ascensions are, therefore, practically unaffected by Personal Equation, except in so far as that equation may vary for Stars which differ in Magnitude and Declination from the Clock-Stars.

Except in the case of the *Victoria* and *Sappho* Comparison Stars, a reversing-prism has been used throughout all the observations, the observations over half of the wires in each transit being made with the apparent motion of the Star from right to left, and over the other half with the Star's apparent motion from left to right. In the case of these rather faint stars the reversing-prism was found to absorb an inconvenient amount of light, but as the Clock-Stars employed did not differ greatly in Declination from the observed Stars, the non-employment of the reversing-prism introduced no source of error.

In the Introduction to the Cape General Catalogue of 1713 Stars for the Equinox 1885·0 (pp. x.–xiv), will be found a complete account of the method in which the reversing-prism is mounted and used, and of the reasons which led to its employment for the elimination, as far as possible, of personality depending on Declination. In no case have any corrections been applied for Personal Equation depending on magnitude.

Only a comparatively small number of observations have been made by Reflexion, and none of them have been retained.

Observations of R.A. *sub polo* have been used with the following weights—

Dec.	Weight.
− 90° to − 85°	1
− 85 to − 80	$\frac{2}{3}$
− 80 to − 75	$\frac{1}{2}$

Declinations.

Division-Errors.

The reader is referred to the Introduction to the *Cape Meridian Observations*, 1879-81 (pp. xiii–xxiv) for an account of the methods by which the errors of graduation were determined for each degree of the Circle. The resulting corrections have been rigorously applied in forming the results given in the Annual Catalogues.

Errors of the Micrometer-Screws.

Before the observations on which the results of the present Catalogue depend were undertaken, the easily worn gun-metal screws of the microscope-micrometers of the Circle were replaced by steel screws, and three of the six microscope-micrometers had their drum-heads divided in the opposite way, so that the corresponding micrometer-boxes might be reversed in direction. In this way the wear of the screw-threads, resulting from the pressure of the opposing spring, creates errors which have opposite effects on the circle-readings according as increasing readings of the head correspond with increased or diminished compression of the spring. (*Monthly Notices* R.A.S., Vol. XLV., p. 81.) The errors of these new screws were investigated in 1886 with the apparatus and in the manner described in the paper just quoted, and the results are given in the Introductions to the Annual Results of Observations.

In order to ascertain whether steel screws are subject to the same rapid wear as the older gun-metal screws, and also to ascertain how far the plan of reversing three of the micrometers had the effect of eliminating such errors as wear might have produced, the screw-errors were again investigated in 1897; the results of both investigations are given in the following table:—

Corrections for Inequalties in whole Revolutions of Microscope-Micrometer Screws.

Micrometer.	9r·0		0r·0.		1r·0.		2r·0.		3r·0.		4r·0.		5r·0.		6r·0.	
	1886.	1897.	1886.	1897.	1886.	1897.	1886.	1897.	1886.	1897.	1886.	1897.	1886.	1897.	1886.	1897.
	″	″	″	″	″	″	″	″	″	″	″	″	″	″	″	″
A	0·00	0·00	+0·02	+0·16	+0·09	+0·25	+0·11	+0·27	+0·12	+0·23	+0·09	+0·17	+0·03	+0·07	0·00	0·00
B	·00	·00	+ ·02	— ·07	+ ·01	— ·19	·00	— ·31	— ·04	— ·34	— ·06	— ·29	— ·05	— ·14	·00	·00
C	·00	·00	— ·04	— ·23	— ·04	— ·27	— ·02	— ·22	— ·03	— ·21	— ·03	— ·11	— ·04	— ·07	·00	·00
D	·00	·00	+ ·06	+ ·22	+ ·07	+ ·37	+ ·06	+ ·49	+ ·06	+ ·39	+ ·04	+ ·37	+ ·03	+ ·31	·00	·00
E	·00	·00	+ ·08	+ ·22	+ ·16	+ ·38	+ ·24	+ ·44	+ ·17	+ ·43	+ ·14	+ ·32	+ ·07	+ ·03	·00	·00
F	·00	·00	— ·17	— ·17	— ·37	— ·53	— ·52	— ·63	— ·52	— ·57	— ·45	— ·47	— ·27	— ·33	·00	·00
Mean ...	0·00	0·00	—0·01	+0·02	—0·01	0·00	—0·02	+0·01	—0·04	—0·01	—0·05	0·00	—0·04	—0·02	0·00	0·00

Corrections for Periodic Error of Microscope-Micrometer Screws.

Micrometer.	0r·0.		0r·1.		0r·2.		0r·3.		0r·4.	
	1886.	1897.	1886.	1897.	1886.	1897.	1886.	1897.	1886.	1897.
	″	″	″	″	″	″	″	″	″	″
A	—0·04	+0·01	—0·05	+0·01	—0·02	—0·01	0·00	—0·03	—0·02	—0·03
B	+ ·01	+ ·01	— ·06	— ·01	— ·07	— ·02	— ·07	— ·04	— ·09	— ·05
C	— ·01	+ ·02	— ·04	— ·01	— ·06	— ·04	— ·06	— ·05	— ·02	— ·05
D	— ·06	+ ·01	— ·09	·00	+ ·02	·00	+ ·10	·00	+ ·01	— ·01
E	— ·03	+ ·01	— ·05	— ·01	— ·01	— ·01	+ ·02	— ·01	·00	— ·02
F	— ·02	— ·01	— ·01	·00	+ ·01	·00	+ ·01	·00	— ·01	·00

Micrometer.	0r·5		0r·6.		0r·7.		0r·8.		0r·9.	
	1886.	1897.	1886.	1897.	1886.	1897.	1886.	1897.	1886.	1897.
	″	″	″	″	″	″	″	″	″	″
A	—0·03	—0·01	+0·01	+0·02	+0·06	+0·02	+0·07	+0·01	+0·02	+0·01
B	— ·08	— ·03	— ·01	+ ·01	+ ·11	+ ·05	+ ·16	+ ·06	+ ·11	+ ·03
C	+ ·03	— ·03	+ ·06	+ ·01	+ ·05	+ ·04	+ ·03	+ ·06	+ ·01	+ ·05
D	— ·12	— ·02	— ·12	— ·02	+ ·04	·00	+ ·16	+ ·02	+ ·09	+ ·02
E	— ·04	— ·02	— ·03	— ·01	+ ·03	+ ·01	+ ·07	+ ·03	+ ·04	+ ·03
F	— ·01	+ ·01	+ ·01	+0·01	+ ·02	+ ·01	+ ·01	·00	— ·01	— ·01

Now the micrometers in which the readings of the head diminish as the wire approaches the head (*i.e.*, as the pressure of the counter-spring increases), are A, D, and E, whilst the micrometers B, C, and F, are those in which the readings of the heads increase as the wire approaches the head. The effects of 10 years' wear on the non-periodic errors of the screw are thus as follows :—

—		0r·	1r·	2r·	3r·	4r·	5r·
		″	″	″	″	″	″
When increased readings of head correspond to increase of spring-pressure	B	— 0·09	— 0·20	— 0·31	— 0·30	— 0·23	— 0·09
	C	— ·19	— ·23	— ·20	— ·18	— ·08	— ·03
	F	— ·00	— ·16	— ·11	— ·05	— ·02	— ·06
When increased readings of head correspond to diminished pressure of spring	A	+ 0·14	+ 0·16	+ 0·16	+ 0·11	+ 0·08	+ 0·04
	D	+ ·16	+ ·30	+ ·43	+ ·33	+ ·33	+ ·28
	E	+ ·14	+ ·22	+ ·20	+ ·26	+ ·18	— ·04

These results prove conclusively that, even when steel screws are employed, the changes produced by wear in the non-periodic corrections are very marked, but that the effects of wear are practically eliminated by the plan of reversing the alternate microscopes.

On the other hand, the effects of wear have a tendency to diminish the original periodic errors of the screws.

The Declinations of the Annual Catalogues.

The results for Declination given in the Annual Catalogues were formed on the assumptions—

1. That the observations are unaffected by Instrumental Flexure.
2. That the Refractions of Bessel's *Tabulæ Regiomontanæ* require no correction.
3. That the Latitude is $-$ 33° 56′ 3″·20.

Flexure.

By observations of opposite Collimators, the half sum of the Horizontal Flexures to North and South were determined in the usual manner, generally once every week. The mean results are given in the following table :—

Year.	No. of Obs.	Mean Flexure.
		″
1886	27	— 0·333
1887	50	— ·330
1888	63	— ·328
1889	50	— ·283
1890	48	— ·286
1891	52	— ·317
1892	37	— ·261
1893	14	
1894	45	— ·319
1895	48	— ·250
Adopted Mean ...		— 0·30

The correction for Flexure is therefore—

$$-\ 0''{\cdot}30 \sin \zeta.$$

Latitude.

The results of observations of stars between Declination $-$ 75° and $-$ 90° at upper and lower culmination, as taken from the Annual Catalogues, and reduced

without correction for Flexure, &c., to the Equinox and Epoch 1890·0 are given in columns 2 and 3 of the following Table :—

TABLE II.

Observations of Circumpolar Stars for Latitude.

No.	Declination.		Above *minus* Below.	No. of Obs.		Seconds of Dec. corrected for $\Delta\phi$.		Above *minus* Below.	Weight.
	Above Pole.	Below Pole.		Above.	Below.	Above.	Below.		
	° ′ ″	″	″			″	″	″	
2688	— 89 21 43·17	42·82	— 0·35	38	36	43·12	42·73	— 0·39	16
2304	— 89 16 1·13	0·65	— 0·48	81	59	1·07	0·60	— 0·47	17
1450	— 89 11 43·70	43·36	— 0·34	27	10	43·74	43·30	— 0·44	12
1330	— 89 11 38·50	37·93	— 0·57	16	6	38·51	37·92	— 0·59	9
29	— 88 58 28·89	28·53	— 0·36	37	46	28·81	28·47	— 0·34	16
1220	— 88 57 21·94	21·15	— 0·79	8	6	22·01	21·16	— 0·85	8
1643	— 88 52 25·47	24·84	— 0·63	18	10	25·55	24·79	— 0·76	11
360	— 88 52 18·32	17·96	— 0·36	12	12	18·37	17·94	— 0·43	11
1329	— 88 38 18·07	17·90	— 0·17	12	12	18·08	17·85	— 0·23	11
404	— 88 36 38·43	37·67	— 0·76	48	55	38·42	37·71	— 0·71	17
925	— 88 32 47·40	46·78	— 0·62	51	42	47·47	46·86	— 0·61	16
717	— 88 21 32·63	32·41	— 0·22	13	17	32·63	32·44	— 0·19	12
2905	— 88 5 9·65	9·01	— 0·64	52	41	9·58	8·91	— 0·67	16
1397	— 87 48 13·36	12·97	— 0·39	12	12	13·38	12·93	— 0·45	11
1704	— 87 41 55·13	54·65	— 0·48	53	62	55·12	54·65	— 0·47	17
2192	— 87 39 44·79	44·03	— 0·76	75	55	44·70	43·92	— 0·78	17
1958	— 87 22 8·27	8·38	+ 0·11	6	6	8·26	8·33	+ 0·07	8
2060	— 87 16 57·89	57·64	— 0·25	32	18	57·89	57·64	— 0·25	14
1570	— 87 4 5·42	4·91	— 0·51	15	12	5·44	4·87	— 0·57	11
2739	— 87 0 35·67	35·55	— 0·12	12	13	35·69	35·49	— 0·20	11
2944	— 87 0 24·52	24·09	— 0·43	15	16	24·54	24·05	— 0·49	12
1476	— 86 58 5·78	5·60	— 0·18	18	21	5·86	5·55	— 0·31	13
858	— 86 50 60·10	59·36	— 0·74	93	64	60·17	59·47	— 0·70	18
8	— 86 39 5·82	4·86	— 0·96	21	23	5·83	4·80	— 1·03	14
2786	— 86 31 33·22	32·89	— 0·33	72	86	33·18	32·83	— 0·35	18
557	— 86 30 43·26	42·81	— 0·45	13	23	43·26	42·82	— 0·44	12
2974	— 86 30 29·07	28·29	— 0·78	6	6	29·08	28·23	— 0·85	8
94	— 86 29 32·29	31·98	— 0·31	6	7	32·36	31·95	— 0·41	8
1193	— 86 22 35·51	34·78	— 0·73	6	6	35·58	34·79	— 0·79	8
1265	— 86 19 12·45	12·26	— 0·19	19	15	12·50	12·27	— 0·23	13
2917	— 86 18 51·27	50·16	— 1·11	15	16	51·28	50·11	— 1·17	12
392	— 86 18 28·65	28·54	— 0·11	6	7	28·71	28·53	— 0·18	8
79	— 86 18 14·54	14·39	— 0·15	18	19	14·58	14·44	— 0·14	13
2228	— 86 16 4·60	4·60	0·00	6	4	4·55	4·49	— 0·06	6
355	— 86 12 17·66	17·24	— 0·42	51	41	17·65	17·26	— 0·39	16
1006	— 86 11 14·08	13·20	— 0·88	10	7	14·16	13·23	— 0·93	9

Observations of Circumpolar Stars for Latitude—*continued.*

No.	Declination.		Above *minus* Below.	No. of Obs.		Seconds of Dec. Corrected for $\Delta\phi$.		Above *minus* Below.	Weight.
	Above Pole.	Below Pole.		Above.	Below.	Above.	Below.		
	° ′ ″	″	″			″	″	″	
1533	— 86 9 31·97	31·44	— 0·53	6	6	32·00	31·38	— 0·62	8
1964	— 86 9 19·66	19·60	— 0·06	70	65	19·60	19·57	— 0·03	17
2617	— 86 5 20·34	20·37	+ 0·03	6	6	20·31	20·29	— 0·02	8
1700	— 86 1 8·79	8·73	— 0·06	6	6	8·82	8·64	— 0·18	8
76	— 86 0 55·72	54·64	— 1·08	6	6	55·77	54·59	— 1·18	8
1233	— 85 59 47·78	47·02	— 0·76	7	5	47·85	47·01	— 0·84	8
721	— 85 55 46·57	46·11	— 0·46	55	66	46·64	46·23	— 0·41	17
68	— 85 51 22·67	21·37	— 1·30	6	6	22·70	21·31	— 1·39	8
2257	— 85 40 8·35	8·84	+ 0·49	7	6	8·30	8·76	+ 0·46	8
2612	— 85 38 33·80	33·34	— 0·46	6	9	33·76	33·26	— 0·50	8
1304	— 85 37 59·28	58·76	— 0·52	6	5	59·34	58·75	— 0·59	7
933	— 85 37 34·74	33·48	— 1·26	16	12	34·83	33·50	— 1·33	12
20	— 85 36 22·70	22·54	— 0·16	13	12	22·72	22·51	— 0·21	11
516	— 85 35 10·90	10·28	— 0·62	30	32	10·84	10·32	— 0·52	15
266	— 85 34 9·92	9·38	— 0·54	6	7	9·96	9·35	— 0·61	8
2706	— 85 32 27·21	26·84	— 0·37	6	8	27·19	26·76	— 0·43	8
1410	— 85 32 25·57	25·08	— 0·49	12	12	25·61	25·08	— 0·53	11
1247	— 85 31 13·38	13·28	— 0·10	62	55	13·46	13·33	— 0·13	17
1155	— 85 30 25·79	24·71	— 1·08	1	2	25·80	24·84	— 0·96	2
1157	— 85 30 25·40	25·45	+ 0·05	31	12	25·42	25·45	+ 0·03	13
372	— 85 28 55·74	55·26	— 0·48	6	9	55·80	55·24	— 0·56	8
233	— 85 19 30·02	29·76	— 0·26	96	61	30·03	29·74	— 0·29	18
272	— 85 16 55·99	54·98	— 1·01	6	7	56·02	54·95	— 1·07	8
2650	— 85 16 44·63	44·37	— 0·26	6	9	44·60	44·29	— 0·31	8
1530	— 85 15 17·93	17·33	— 0·60	7	6	17·98	17·30	— 0·68	8
1064	— 85 13 18·33	18·14	— 0·19	80	72	18·44	18·07	— 0·37	18
1540	— 85 13 17·28	17·07	— 0·21	60	76	17·32	17·07	— 0·25	17
2619	— 85 12 3·62	2·39	— 1·23	6	6	3·58	2·31	— 1·27	8
2131	— 85 10 5·35	5·36	+ 0·01	29	18	5·33	5·37	+ 0·04	14
1300	— 85 9 9·72	10·05	+ 0·33	6	6	9·78	10·05	+ 0·27	8
482	— 85 4 41·77	41·22	— 0·55	11	16	41·79	41·25	— 0·54	11
1370	— 85 1 9·33	8·51	— 0·82	26	21	9·37	8·47	— 0·90	14
2336	— 84 54 37·26	36·64	— 0·62	32	34	37·26	36·65	— 0·61	15
1345	— 84 52 39·06	38·74	— 0·32	14	13	39·09	48·70	— 0·39	12
694	— 84 50 15·53	15·14	— 0·39	37	51	15·59	15·20	— 0·39	16
2531	— 84 46 42·08	41·74	— 0·34	63	82	42·03	41·64	— 0·39	18
1458	— 84 31 32·15	31·60	— 0·55	59	58	32·18	31·65	— 0·53	17
2964	— 84 28 25·38	25·25	— 0·13	15	15	25·40	25·21	— 0·19	12
2704	— 84 27 50·52	50·62	+ 0·10	6	7	50·50	50·54	+ 0·04	8
559	— 84 25 53·00	52·71	— 0·29	4	4	52·96	52·67	— 0·29	6
2207	— 84 25 16·39	15·64	— 0·75	14	13	16·37	15·71	— 0·66	12
1328	— 84 20 58·37	58·52	+ 0·15	20	17	58·44	58·52	+ 0·08	13

Observations of Circumpolar Stars for Latitude—*continued.*

No.	Declination.		Above *minus* Below.	No. of Obs.		Seconds of Dec. Corrected for $\Delta\phi$.		Above *minus* Below.	Weight.
	Above Pole.	Below Pole.		Above.	Below.	Above.	Below.		
	° ′ ″	″	″			″	″	″	
2831	— 84 18 58·35	57·93	— 0·42	13	20	58·35	57·90	— 0·45	12
1105	— 84 11 16·47	15·65	— 0·82	14	5	16·43	15·60	— 0·83	8
1803	— 84 5 46·23	45·95	— 0·28	55	54	46·19	45·95	— 0·24	17
2787	— 84 4 11·13	10·87	— 0·26	5	6	11·17	10·85	— 0·32	7
2280	— 84 4 0·86	1·53	+ 0·67	6	6	0·82	1·59	+ 0·77	8
1287	— 84 0 7·71	7·25	— 0·46	42	56	7·76	7·33	— 0·43	17
648	— 83 58 55·55	55·06	— 0·49	18	24	55·50	55·08	— 0·42	14
422	— 83 56 7·50	7·89	+ 0·39	6	6	7·50	7·86	+ 0·36	8
1879	— 83 55 6·84	7·39	+ 0·55	6	6	6·86	7·37	+ 0·51	8
596	— 83 41 51·85	51·51	— 0·34	6	6	51·76	51·51	— 0·25	8
2502	— 83 38 50·11	50·20	+ 0·09	9	6	50·11	50·24	+ 0·13	8
2981	— 83 37 10·41	11·75	+ 1·34	6	6	10·40	11·63	+ 1·23	8
228	— 83 32 5·13	4·48	— 0·65	6	6	5·12	4·49	— 0·63	8
1547	— 83 20 43·32	44·07	+ 0·75	6	6	43·30	44·03	+ 0·73	8
1085	— 83 16 52·06	51·66	— 0·40	16	6	52·02	51·65	— 0·37	9
2711	— 83 13 24·45	24·68	+ 0·23	18	26	24·50	24·62	+ 0·12	14
2139	— 83 11 29·89	29·25	— 0·64	18	7	29·88	29·31	— 0·57	10
1651	— 83 9 45·54	45·66	+ 0·12	8	21	45·48	45·73	+ 0·25	11
567	— 83 8 8·10	7·96	— 0·14	51	64	8·16	8·04	— 0·12	17
276	— 83 2 6·85	7·06	+ 0·21	6	6	6·72	7·07	+ 0·35	8
15	— 82 50 8·32	8·02	— 0·30	9	9	8·34	7·95	— 0·39	9
2990	— 82 46 53·03	53·26	+ 0·23	8	17	53·14	53·30	+ 0·16	10
2068	— 82 39 49·90	50·42	+ 0·43	5	5	50·00	50·48	+ 0·48	7
2975	— 82 37 48·21	47·98	— 0·23	13	14	48·27	47·88	— 0·39	12
626	— 82 36 57·76	57·34	— 0·42	17	17	57·70	57·36	— 0·34	13
1734	— 82 35 44·21	44·43	+ 0·22	11	13	44·29	44·40	+ 0·11	11
1646	— 82 20 25·49	25·23	— 0·26	7	6	25·49	25·27	— 0·22	8
910	— 82 18 36·03	36·03	0·00	6	6	56·23	55·99	— 0·24	8
2035	— 82 13 57·36	57·58	+ 0·22	6	5	57·37	57·66	+ 0·29	7
1584	— 82 7 13·61	13·47	— 0·14	14	18	13·71	13·44	— 0·27	12
738	— 82 0 26·38	25·94	— 0·44	7	22	26·34	25·98	— 0·36	10
2838	— 81 57 27·73	27·47	— 0·26	9	8	27·74	27·40	— 0·34	9
553	— 81 49 42·66	42·56	— 0·10	6	6	42·59	42·54	— 0·05	8
1183	— 81 40 55·75	55·28	— 0·47	13	15	55·82	55·23	— 0·59	12
2536	— 81 39 31·76	31·93	+ 0·17	10	24	31·80	31·91	+ 0·11	12
2435	— 81 37 23·15	22·63	— 0·52	60	76	23·07	22·55	— 0·52	17
2889	— 81 30 32·95	33·56	+ 0·61	6	3	32·92	33·45	+ 0·53	6
1238	— 81 21 11·36	11·02	— 0·34	4	5	11·55	11·00	— 0·55	6
919	— 81 18 37·07	36·45	— 0·62	24	12	37·07	36·44	— 0·63	12
483	— 81 12 13·47	12·98	— 0·49	6	6	13·49	12·96	— 0·53	8
2605	— 81 7 27·47	26·86	— 0·61	6	6	27·50	26·60	— 0·90	8
1188	— 81 1 47·71	46·26	— 1·45	4	4	47·80	46·23	— 1·57	6

Observations of Circumpolar Stars for Latitude—*continued.*

No.	Declination.		Above *minus* Below.	No. of Obs.		Seconds of Dec. Corrected for $\Delta\phi$.		Above *minus* Below.	Weight.
	Above Pole.	Below Pole.		Above.	Below.	Above.	Below.		
	° ′ ″	″	″			″	″	″	
2777	— 80 59 11·60	10·85	— 0·75	12	8	11·62	10·79	— 0·83	10
2090	— 80 45 16·28	16·14	— 0·14	23	19	16·25	16·20	— 0·05	14
1127	— 80 44 2·95	2·59	— 0·36	6	6	2·98	2·54	— 0·44	8
240	— 80 43 12·06	11·40	— 0·66	13	12	12·09	11·29	— 0·80	11
2849	— 80 42 13·84	12·42	— 1·42	3	5	13·79	12·32	— 1·47	5
784	— 80 41 48·05	47·41	— 0·64	18	23	48·02	47·38	— 0·64	13
979	— 80 33 10·92	10·91	— 0·01	31	22	10·99	10·86	— 0·13	14
684	— 80 33 3·57	2·61	— 0·96	10	21	3·50	2·62	— 0·88	12
1634	— 80 29 27·14	27·67	+ 0·53	5	1	27·13	27·56	+ 0·43	3
548	— 80 28 15·16	14·42	— 0·74	23	16	15·09	14·46	— 0·63	13
26	— 80 27 39·68	39·97	+ 0·29	6	6	39·72	39·98	+ 0·26	8
1138	— 80 26 48·32	48·50	+ 0·18	11	15	48·43	48·54	+ 0·11	11
1107	— 80 18 41·56	41·18	— 0·38	5	10	41·56	41·21	— 0·35	8
2736	— 80 14 15·25	14·72	— 0·53	6	6	15·07	14·48	— 0·59	8
1456	— 80 6 6·34	5·43	— 0·91	6	6	6·32	5·42	— 0·90	8
2882	— 80 4 26·01	25·61	— 0·40	13	14	25·98	25·57	— 0·41	12
1262	— 79 57 36·20	35·68	— 0·52	6	12	36·24	35·63	— 0·61	9
1097	— 79 55 17·35	17·02	— 0·33	9	6	17·31	17·04	— 0·27	8
2780	— 79 50 37·58	37·15	— 0·43	4	6	37·63	37·13	— 0·50	6
229	— 79 42 9·55	8·16	— 1·39	10	6	9·53	8·15	— 1·38	9
346	— 79 35 21·53	20·41	— 1·12	9	8	21·50	20·44	— 1·06	9
407	— 79 24 24·30	24·22	— 0·08	10	6	24·27	24·22	— 0·05	9
2960	— 79 24 8·29	7·48	— 0·81	4	8	8·26	7·39	— 0·87	7
703	— 79 22 46·14	46·17	+ 0·03	10	8	46·19	46·16	— 0·03	9
2498	— 79 19 59·39	59·01	— 0·38	6	6	59·26	58·77	— 0·49	8
812	— 79 15 41·40	40·43	— 0·97	12	10	41·58	40·41	— 1·17	10
2985	— 79 6 59·23	59·34	+ 0·11	6	6	59·20	59·14	— 0·06	8
1020	— 79 5 48·48	47·73	— 0·75	5	6	48·75	47·68	— 1·07	7
1312	— 79 3 57·33	57·24	— 0·09	6	6	57·48	57·23	— 0·25	8
211	— 79 3 47·55	47·11	— 0·44	29	16	47·55	47·00	— 0·55	13
2064	— 78 56 22·42	22·36	— 0·06	6	7	22·39	22·39	0·00	8
522	— 78 55 38·60	38·36	— 0·24	13	8	38·53	38·36	— 0·17	10
253	— 78 53 10·33	9·78	— 0·55	13	4	10·24	9·77	— 0·47	8
870	— 78 51 47·31	47·01	— 0·30	6	6	47·48	46·96	— 0·52	8
766	— 78 49 17·79	17·67	— 0·12	6	6	17·93	17·62	— 0·31	8
452	— 78 43 11·51	10·93	— 0·58	13	8	11·56	11·01	— 0·55	10
1808	— 78 42 33·56	33·31	— 0·25	6	6	33·57	33·29	— 0·28	8
1403	— 78 42 5·70	4·46	— 1·24	5	12	5·84	4·47	— 1·37	8
1952	— 78 38 53·51	53·08	— 0·43	12	10	53·55	53·11	— 0·44	10
1701	— 78 34 36·01	35·80	— 0·21	6	7	36·07	35·95	— 0·12	8
1012	— 78 33 49·94	48·53	— 1·41	11	3	50·05	48·37	— 1·68	6
1725	— 78 25 43·27	42·65	— 0·62	6	6	43·27	42·70	— 0·57	8

Observations of Circumpolar Stars for Latitude—*continued.*

No.	Declination.		Above *minus* Below.	No. of Obs.		Seconds of Dec. Corrected for $\Delta\phi$.		Above *minus* Below.	Weight.
	Above Pole.	Below Pole.		Above.	Below.	Above.	Below.		
	° ′ ″	″	″			″	″	″	
1920	— 78 24 60·13	59·92	— 0·21	5	14	60·17	59·93	— 0·24	8
1921	— 78 23 19·93	20·03	+ 0·10	6	5	19·92	19·93	+ 0·01	7
2055	— 78 15 28·04	28·03	— 0·01	6	7	27·98	27·99	+ 0·01	8
2748	— 78 11 15·26	15·77	+ 0·51	12	12	15·29	15·71	+ 0·42	11
1243	— 78 2 14·41	14·48	+ 0·07	12	7	14·43	14·53	+ 0·10	9
2334	— 78 2 6·90	7·02	+ 0·12	6	6	6·92	6·77	— 0·15	8
2937	— 77 59 33·84	33·87	+ 0·03	7	11	33·76	33·76	0·00	9
445	— 77 59 15·59	14·72	— 0·87	13	13	15·57	14·70	— 0·87	11
2699	— 77 52 38·96	38·77	— 0·19	14	10	38·88	38·73	— 0·15	11
38	— 77 52 25·62	24·83	— 0·79	11	10	25·69	24·73	— 0·96	10
580	— 77 51 47·32	46·63	— 0·69	7	6	47·38	46·61	— 0·77	8
1491	— 77 51 46·38	46·44	+ 0·06	13	12	46·49	46·39	— 0·10	11
1481	— 77 51 23·00	22·38	— 0·62	6	6	23·10	22·50	— 0·60	8
419	— 77 47 22·74	22·89	+ 0·15	10	12	22·77	22·94	+ 0·17	10
1878	— 77 42 3·53	3·22	— 0·31	7	13	3·59	3·25	— 0·34	9
2997	— 77 40 23·49	23·11	— 0·38	8	12	23·43	23·06	— 0·37	10
1365	— 77 36 33·25	33·82	+ 0·57	9	7	33·28	33·86	+ 0·58	9
2613	— 77 26 31·20	30·93	— 0·27	23	20	31·24	30·85	— 0·39	14
1979	— 77 17 7·05	6·55	— 0·50	11	11	6·98	6·62	— 0·36	10
122	— 77 8 56·30	56·00	— 0·30	6	6	56·26	55·90	— 0·36	8
290	— 77 8 24·49	24·13	— 0·36	10	9	24·50	24·03	— 0·47	10
963	— 77 7 45·43	45·65	+ 0·22	19	8	45·49	45·54	+ 0·05	11
2660	— 76 59 34·04	32·72	— 1·32	6	6	34·09	32·69	— 1·40	8
303	— 76 52 6·84	5·90	— 0·94	6	6	6·68	5·91	— 0·77	8
2622	— 76 38 58·92	58·89	— 0·03	3	7	59·08	58·77	— 0·31	6
960	— 76 34 18·34	17·78	— 0·56	6	6	18·57	18·02	— 0·55	8
2553	— 76 33 51·46	50·97	— 0·49	11	13	51·32	50·71	— 0·61	11
1691	— 76 32 5·78	5·45	— 0·33	6	6	5·77	5·47	— 0·30	8
671	— 76 25 8·09	7·74	— 0·35	11	8	8·27	7·75	— 0·52	10
1616	— 76 15 54·44	54·22	— 0·22	10	9	54·56	54·20	— 0·36	10
1733	— 76 12 48·99	47·95	— 1·04	7	12	48·97	48·08	— 0·89	9
2022	— 76 2 16·99	17·19	+ 0·20	19	12	16·98	17·27	+ 0·29	12
1373	— 75 54 28·73	27·39	— 1·34	6	6	28·78	27·41	— 1·37	8
252	— 75 54 7·27	6·78	— 0·49	6	6	7·18	6·79	— 0·39	8
2204	— 75 53 31·72	31·73	+ 0·01	12	12	31·59	31·52	— 0·07	11
90	— 75 31 20·89	19·80	— 1·09	9	4	20·86	19·70	— 1·16	7
2791	— 75 31 6·53	5·51	— 1·02	6	6	6·51	5·54	— 0·97	8
377	— 75 30 58·52	58·07	— 0·45	14	13	58·51	58·02	— 0·49	11
2371	— 75 23 10·48	11·68	+ 1·20	6	5	10·52	11·43	+ 0·91	7
1101	— 75 17 39·95	39·21	— 0·74	9	6	39·90	39·16	— 0·74	8
1341	— 75 17 15·45	15·15	— 0·30	9	6	15·52	15·25	— 0·27	8
1559	— 75 7 19·85	19·81	— 0·04	9	10	19·83	19·89	+ 0·06	10
605	— 75 6 20·60	19·96	— 0·64	8	17	20·53	19·98	— 0·55	10

In the column of the preceding table marked "Seconds of Dec. Corrected for $\Delta\phi$," the separate observations on which each mean result rests have been corrected for the Chandler "Change of Latitude," as derived for the period 1885–95 by Dr. Albrecht, and kindly communicated by him.

For the moment we neglect the effect of these changes and confine our attention to the results given in column 4, "Above *minus* Below."

The weights of the results depending on different Stars have been computed by the formula—

$$p = \frac{4\,m\,n}{m + n + {}^1/_5\,m\,n}$$

where m is the number of observations above pole and n the number of observations below pole.

Having regard to these weights, and dividing the results into groups of 5° in Declination, we get the following :—

Limits of Group.	Mean Dec.	Above *minus* Below.	Corr. for Flexure.	Corrected Result $-2x'$.	Weight.	O — C.
° °	° ′	″	″	″		″
− 90 to − 85	− 86 42	− 0·44	+ 0·49	+ 0·05	791	− 0·11
− 85 „ − 80	− 82 39	− 0·25	+ 0·49	+ 0·24	706	+ 0·08
− 80 „ − 75	− 77 43	− 0·37	+ 0·48	+ 0·11	616	− 0·05
− 75 „ − 70	− 72 25	− 0·20	+ 0·47	+ 0·27	500	+ 0·11
			Mean $-2x' =$	″ + 0·157		
			$x' =$	− 0·08		

The latitude of the Transit-Circle was assumed to be—

$$-\ 33°\ 56'\ 3''{\cdot}20\ +\ x'$$

Whence the true latitude of the Transit-Circle, if assumed to be invariable, and if Bessel's Refraction Tables are assumed free from systematic error, is—

$$-\ 33°\ 56'\ 3''{\cdot}28.$$

The preliminary Declinations are formed on the assumptions :—

1. That the Flexure correction is $-\ 0''{\cdot}30 \sin \zeta$.
2. That the Refractions of the *Tabulæ Regiomontanæ* are accurate.
3. That the Latitude is $-\ 33°\ 56'\ 3''{\cdot}28$.

Definitive discussion of the Latitude.

The Chandler "Change of Latitude" appears now to be too well determined to be neglected, therefore in the definitive discussion of the Latitude it was taken into

account, and the corrections due to it, given in the following Table III., were applied to the separate observations of the *Results of Meridian Observations.*

TABLE III.

Corrections to N.P.D. for Variation of Latitude, 1885–1895.

(Communicated by Dr. Albrecht.)

Day.	1885.	1886.	1887.	1888.	1889.	1890.	1891.	1892.	1893.	1894.	1895.
	″	″	″	″	″	″	″	″	″	″	″
January 1	−0·07	−0·16	−0·12	+0·02	+0·15	+0·21	+0·11	−0·10	−0·13	−0·11	+0·01
11	−0·03	−0·14	−0·11	+0·02	+0·15	+0·23	+0·14	−0·05	−0·11	−0·10	+0·02
21	+0·01	−0·12	−0·10	+0·01	+0·15	+0·25	+0·17	−0·02	−0·09	−0·10	+0·03
31	+0·05	−0·08	−0·10	0·00	+0·14	+0·26	+0·19	+0·02	−0·06	−0·09	+0·04
February 10	+0·09	−0·05	−0·09	−0·01	+0·14	+0·27	+0·21	+0·05	−0·04	−0·09	+0·05
20	+0·13	−0·01	−0·08	−0·02	+0·13	+0·28	+0·23	+0·09	−0·02	−0·08	+0·07
March 2	+0·16	+0·02	−0·07	−0·03	+0·11	+0·28	+0·24	+0·13	0·00	−0·07	+0·08
12	+0·19	+0·04	−0·06	−0·04	+0·10	+0·26	+0·25	+0·16	+0·02	−0·06	+0·09
22	+0·22	+0·07	−0·05	−0·05	+0·07	+0·24	+0·27	+0·19	+0·04	−0·05	+0·09
April 1	+0·23	+0·09	−0·03	−0·05	+0·05	+0·21	+0·27	+0·21	+0·06	−0·04	+0·08
11	+0·24	+0·11	−0·02	−0·06	+0·03	+0·19	+0 27	+0·23	+0·08	−0·03	+0·08
21	+0·24	+0·13	−0·01	−0·07	0·00	+0·16	+0·26	+0·24	+0·10	−0·02	+0·07
May 1	+0·24	+0·15	0·00	−0·08	−0·03	+0·13	+0·24	+0·25	+0·12	−0·02	+0·06
11	+0·23	+0·16	+0·01	−0·08	−0·06	+0·09	+0·21	+0·24	+0·14	−0·01	+0·05
21	+0·22	+0·17	+0·02	−0·09	−0·08	+0·05	+0·17	+0·24	+0·16	−0·01	+0·03
31	+0·22	+0·17	+0·03	−0·09	−0·11	0·00	+0·12	+0·22	+0·17	−0·01	+0·02
June 10	+0·20	+0·16	+0·04	−0·09	−0·13	−0·03	+0·09	+0·20	+0·18	−0·01	0·00
20	+0·17	+0·16	+0·05	−0·09	−0·15	−0·07	+0·04	+0·17	+0·19	0·00	−0·02
30	+0·14	+0·15	+0·06	−0·09	−0·17	−0·10	0·00	+0·14	+0·18	0·00	−0·04
July 10	+0·10	+0·14	+0·06	−0·09	−0·18	−0·13	−0·04	+0·12	+0·17	+0·01	−0·04
20	+0·06	+0·12	+0·07	−0·08	−0·19	−0·16	−0·09	+0·09	+0·16	+0·02	−0·05
30	+0·02	+0·11	+0·07	−0·08	−0·20	−0·19	−0·13	+0·04	+0·14	+0·03	−0·06
August 9	−0·02	+0·09	+0·07	−0·07	−0·20	−0·21	−0·16	+0·01	+0·12	+0·03	−0·06
19	−0·05	+0·07	+0·07	−0·06	−0·19	−0·23	−0·20	−0·02	+0·10	+0·04	−0·05
29	−0·09	+0·05	+0·06	−0·04	−0·18	−0·24	−0·23	−0·05	+0·07	+0·04	−0·04
September 8	−0·10	+0·03	+0·06	−0·03	−0·16	−0·24	−0·26	−0·08	+0·04	+0·05	−0·03
18	−0·14	+0·01	+0·06	−0·01	−0·14	−0·23	−0·27	−0·11	+0·02	+0·05	−0·02
28	−0·16	−0·01	+0·06	+0·01	−0·11	−0·22	−0·28	−0·12	0·00	+0·06	0·00
October 8	−0·18	−0·04	+0·05	+0·02	−0·09	−0·19	−0·29	−0·14	−0·03	+0·05	+0·02
18	−0·19	−0·06	+0·05	+0·04	−0·06	−0·16	−0·29	−0·15	−0·05	+0·05	+0·04
28	−0·21	−0·07	+0·05	+0·05	−0·03	−0·14	−0·28	−0·15	−0·07	+0·05	+0·05
November 7	−0·21	−0·08	+0·04	+0·07	+0·01	−0·11	−0·27	−0·16	−0·08	+0·04	+0·06
17	−0·21	−0·09	+0·04	+0·09	+0·04	−0·08	−0·25	−0·17	−0·10	+0·03	+0·07
27	−0·21	−0·10	+0·04	+0·11	+0·08	−0·04	−0·22	−0·17	−0·11	+0·03	+0·08
December 7	−0·20	−0·11	+0·03	+0·13	+0·12	0·00	−0·19	−0·16	−0·11	+0·02	+0·09
17	−0·18	−0·11	+0·03	+0·14	+0·16	+0·04	−0·16	−0·15	−0·11	+0·02	+0·10
27	−0·17	−0·12	+0·02	+0·15	+0·20	+0·08	−0·12	−0·14	−0·10	+0·01	+0·12
31	−0·16	−0·12	+0·02	+0·15	+0·21	+0·10	−0·10	−0·13	−0·10	+0·01	+0·13

In the Introduction to the Cape General Catalogue of Stars for 1885, it is shewn that if the Refractions of Bessel's *Tabulæ Regiomontanæ* are multiplied by (1 − 0·00218) and the corresponding corrections applied to the Latitudes of Greenwich and the Cape and to the observed zenith-distances, the Declinations of the Circumpolar Stars at Upper and Lower Transit, and of the Stars observed in common at both Observatories, are brought to systematic agreement (*loc. cit.*, p. xli). It is, therefore, probably unnecessary to repeat this discussion, and certainly so until the new Greenwich Catalogue for 1890 has been published. For the observations of Circumpolar Stars these Refraction-corrections can be applied with all necessary accuracy to the means of groups.

Dividing the observations as given in Table II. into seven groups of nearly equal weight, we have :—

Extent of Group.	Mean Dec.	Above *minus* Below.	Corr. for Refraction and Flexure.	Corrected Result. $-2x''$.	Weight.	O − C.
° ′ ° ′	° ′	″	″	″		″
− 89 21 to 86 50	− 88 10	− 0·48	+ 0·88	+ 0·40	304	− 0·10
− 86 39 „ 85 34	− 86 7	− 0·52	+ 0·88	+ 0·36	296	− 0·14
− 85 32 „ 84 25	− 85 4	− 0·40	+ 0·88	+ 0·48	307	− 0·02
− 84 20 „ 82 18	− 83 26	− 0·07	+ 0·88	+ 0·81	299	+ 0·31
− 82 13 „ 79 57	− 81 0	− 0·43	+ 0·89	+ 0·46	300	− 0·04
− 79 55 „ 77 52	− 78 47	− 0·45	+ 0·91	+ 0·46	303	− 0·04
− 77 51 „ 75 6	− 76 35	− 0·38	+ 0·93	+ 0·55	304	+ 0·05

Mean $-2x'' = +0''\cdot500$, and $x'' = -0''\cdot25$,

whence the Latitude of the Transit-Circle is—

− 33° 56′ 3″·45.

Formation of the Definitive Declinations.

For the formation of the definitive Declinations, given in the column "Sec. of Final Dec.," the following corrections were applied to the results of the preceding column :—

1. A correction corresponding to − 0″·17 in Latitude of the Transit-Circle (equivalent $x''-x'$).

2. A Refraction-correction, corresponding to − 0·00218 r.
   Where r is the refraction originally employed, as computed from Bessel's Tables (*Tab. Reg.*).

3. A correction equivalent to the means of the day-corrections depending on change of Latitude, taken from Table III.

The following Table IV. gives the sum of corrections 1 and 2 ; the amount of correction 3 may therefore be derived by applying the corresponding correction from Table IV. to the Declinations of the preceding column, the difference between the resulting Declination and that of the "Sec. of Final Dec." will be the correction due to Change of Latitude which has been applied.

TABLE—IV.

Corrections to the Column "Mean Dec. 1890·0," on account of Error of Latitude and Refraction.

Dec.	Corr.	Dec.	Corr.	Dec.	Corr.	Dec.	Corr.	Dec. S.P.	Corr.
°	″	°	″	°	″	°	″	°	″
+ 45	— 0·80	+ 10	— 0·29	— 25	— 0·19	— 60	— 0·10	...	...
40	·60	+ 5	·27	30	·18	65	·08	...	...
35	·51	0	·25	35	·17	70	·07	...	...
30	·43	— 5	·24	40	·15	75	·05	— 75	— 0·19
25	·39	10	·22	45	·14	80	— ·02	80	·11
20	·34	15	·21	50	·13	85	·00	85	·06
+ 15	— 0·32	— 20	— 0·20	— 55	— 0·11	— 90	+ 0·02	— 90	— 0·02

Reflex Observations.

For reasons which are fully given at p. xxxix. of the Introduction to the *Cape Catalogue for* 1885, no account is taken of the results of Reflex Observations. Of the few which have been observed the results are given in the following Table V. :—

TABLE V.

Comparison of Direct and Reflex Observations.

Group.	Mean N.P.D.	Mean Z.D.	No. of Stars.	Number of Observations.		N.P.D. $\frac{R-D}{2}$ uncorrected.	+0″·16 sin ζ (Incl. of Vert.) +0″·596 sin ζ (Flexure).	Weight.	N.P.D. $\frac{R-D}{2}$ corrected.
				D.	R.				
	° ′	° ′				″	″		″
I.	56 45	— 67 11	9	94	14	— 0·58	— 0·70	36	— 1·28
II.	61 53	— 62 3	18	213	38	+ 0·15	— 0·67	81	— 0·52
III.	66 56	— 57 0	28	307	51	— 0·05	— 0·63	123	— 0·68
IV.	71 13	— 52 43	31	575	66	+ 0·03	— 0·60	152	— 0·57
V.	76 38	— 47 18	31	721	59	— 0·14	— 0·56	145	— 0·70
VI.	81 35	— 42 21	32	1089	75	+ 0·02	— 0·51	177	— 0·49

COMPARISON OF DIRECT AND REFLEX OBSERVATIONS—*continued.*

Group.	Mean. N.P.D.	Mean. Z.D.	No. of Stars.	Number of Observations.		N.P.D. R − D uncorrected.	+0″·16 sin ζ (Incl. of Vert.) +0″·596 sin ζ (Flexure).	Weight.	N.P.D. R − D corrected.
				D.	R.				
	° ′	° ′				″	″		″
VII.	86 36	− 37 20	37	986	85	0·00	− 0·46	194	− 0·46
VIII.	91 22	− 32 34	27	627	57	+ 0·14	− 0·41	135	− 0·27
IX.	96 42	− 27 14	27	808	55	+ 0·23	− 0·35	131	− 0·12
X.	101 5	− 22 51	23	524	52	+ 0·02	− 0·29	120	− 0·27
XI.	106 26	− 17 30	30	687	77	+ 0·14	− 0·23	165	− 0·09
XII.	111 44	− 12 12	25	237	43	+ 0·28	− 0·16	104	+ 0·12
XIII.	115 23	− 8 33	6	56	13	− 0·11	− 0·11	29	− 0·22
XIV.	132 53	+ 8 57	11	111	19	− 0·96	+ 0·12	47	− 0·84
XV.	136 18	+ 12 22	31	330	63	− 0·68	+ 0·16	144	− 0·52
XVI.	141 43	+ 17 47	23	246	41	− 0·15	+ 0·23	100	+ 0·08
XVII.	146 47	+ 22 51	28	318	59	− 0·38	+ 0·29	132	− 0·09
XVIII.	151 40	+ 27 44	28	279	57	− 0·26	+ 0·35	129	+ 0·09
XIX.	156 17	+ 32 21	24	242	44	− 0·35	+ 0·40	104	+ 0·05
XX.	161 7	+ 37 11	20	210	52	− 0·39	+ 0·46	106	+ 0·07
XXI.	167 8	+ 43 12	24	261	59	− 0·19	+ 0·52	124	+ 0·33
XXII.	171 9	+ 47 13	26	366	54	0·00	+ 0·55	123	+ 0·55
XXIII.	176 1	+ 52 5	12	706	26	− 0·05	+ 0·60	66	+ 0·55
XXIV.	177 28 S.P.	+ 58 36	6	354	19	− 0·18	+ 0·65	36	+ 0·47
XXV.	173 31 S.P.	+ 62 33	23	702	50	− 0·05	+ 0·67	113	+ 0·62
XXVI.	168 59 S.P.	+ 67 5	24	262	47	+ 0·10	+ 0·70	100	+ 0·80

In Groups XI., XII., XIII., XIV., XV. and XVI. the full aperture of the object-glass is not exposed to reflex rays from the star.

COMPARISON WITH OTHER CATALOGUES.

The existing Transit-Circle is now exclusively employed in zone observations, and a new Transit-Circle is under construction for future fundamental work; the present Catalogue is thus probably the last of its class that will emanate from the Cape Observatory as the result of work with a non-reversible instrument.

It seems, therefore, desirable to compare the present Catalogue with such other Catalogues as present a considerable number of stars common to both.

In Appendix I. (p. 176 *et seq*) the following comparisons are given in detail :—

Part 1.—Comparison with Greenwich 5-year Catalogue for 1890.

„ „ Auwers' Fundamental Catalogue (B.J.).

Part 2.—Comparison with the Cape Catalogue of 12,441 stars for 1880.
" " the Melbourne Catalogue of 1,211 stars for 1880.
" " the Greenwich Catalogue of 4,059 stars for 1880.
" " the Cape Catalogue of 1,713 stars for 1885.
" " the Radcliffe Catalogue of 6424 stars for 1890.

Gould's Cordoba General Catalogue for 1875 has been compared by Dr. Downing (*Monthly Notices* R.A.S., vol. XLVII., p. 446) with the Cape General Catalogue for 1880, and by Dr. Auwers (*Ast. Nach.* 3196 and 3413) with the Cape 1890 Catalogue through his Southern Fundamental Catalogue.

In the following pages are given the mean results of these comparisons. To these have been added similar mean results for Newcomb's Fundamental Catalogue. The comparison with Newcomb's Catalogue extends only to the places of such stars as are given in the *Nautical Almanac* for 1901, as I had not access to the places of the complete Catalogue ; the comparison having been made by bringing up the places of the Cape 1890 Catalogue to the Equinox and Epoch 1900 with the precessions and proper motions of the Catalogue itself, and reducing the *Nautical Almanac* places to 1900 with Newcomb's precessions and proper motions.

Comparison with other Catalogues in order of R.A.

—	Limits of Dec.	0h. to 3h.		3h. to 6h.		6h. to 9h.		9h. to 12h.		12h. to 15h.		15h. to 18h.		18h. to 21h.		21h. to 24h.	
		Δα.	Δδ.	Δα.	Δδ.	Δα.	Δδ.	Δα.	Δδ.	Δα.	Δδ.	Δα.	Δδ.	Δα.	Δδ.	Δα.	Δδ.
	° °	s	″	s	″	s	″	s	″	s	″	s	″	s	″	s	″
C_{90}—C_{80}	+ 35 to — 75	+0·054	+0·03	+0·031	+0·06	—0·007	—0·04	+0·002	—0·18	+0·008	—0·07	—0·020	—0·12	+0·024	—0·09	+0·033	—0·07
C_{90}—M_{80}	+ 30 to — 75	+0·085	—0·69	+0·011	—0·57	+0·009	—0·64	+0·029	—0·62	+0·018	—0·38	0·000	—0·40	+0·028	—0·43	+0·070	—0·65
C_{90}—G_{80}	+ 35 to — 15	+0·027	+0·24	+0·031	+0·15	+0·030	+0·16	+0·034	+0·01	+0·005	+0·30	+0·020	—0·01	+0·018	+0·14	+0·013	+0·29
C_{90}—C_{85}	+ 35 to — 75	+0·033	—0·14	—0·009	—0·36	—0·027	—0·45	—0·007	—0·46	+0·017	—0·33	—0·002	—0·38	+0·010	—0·23	+0·010	—0·07
C_{90}—R_{90}	+ 35 to — 15	+0·014	—0·57	—0·011	—0·58	—0·013	—0·70	+0·005	—0·82	—0·013	—0·67	—0·010	—0·96	—0·014	—0·82	+0·007	—0·45

Comparison with other Catalogues—in order of Declination.—R.A.

Group.		Cape 1880.			Melbourne 1880.			Greenwich 1880.			Cape 1885.			Radcliffe 1890.		
°	°	Mag.	(90—80)	Weight.	Mag.	(90—M)	Weight.	Mag.	(90—G)	Weight.	Mag.	(90—85)	Weight.	Mag.	(90—R)	Weight.
			s			s			s			s			s	
+50 to	+45	0·2	+0·010	2	2·8	—0·032	17	4·3	—0·100	47	2·9	—0·071	24	3·1	—0·087	18
45	40		.....		3·5	— ·034	41	4·6	— ·041	113	3·9	+ ·017	42	4·2	— ·050	30
40	35	2·5	— ·081	11	3·1	— ·046	25	4·5	— ·015	158	4·3	— ·057	100	3·4	— ·045	62
35	30	3·3	— ·002	50	3·1	— ·005	78	4·5	— ·002	314	4·1	— ·007	177	3·9	— ·032	122
30	25	4·0	+ ·014	159	3·9	+ ·014	183	4·6	+ ·003	448	3·9	— ·017	286	3·9	— ·041	225
25	20	3·9	+ ·035	159	3·9	+ ·031	185	4·7	+ ·020	482	4·0	·000	272	5·5	— ·028	360
20	15	3·9	+ ·019	143	3·7	+ ·013	154	4·9	+ ·021	440	4·3	+ ·006	303	5·6	— ·032	320
15	10	3·7	+ ·014	254	3·7	+ ·020	285	4·3	+ ·020	421	4·1	— ·001	357	5·4	— ·014	412
10	5	4·1	+ ·031	366	3·7	+ ·007	320	4·4	+ ·027	460	4·3	+ ·008	541	4·6	— ·008	410
+ 5	0	4·2	+ ·035	236	4·1	+ ·019	306	4·8	+ ·040	431	4·6	+ ·007	441	4·6	+ ·002	282
0	— 5	4·7	+ ·026	353	4·3	+ ·021	282	4·4	+ ·035	336	4·4	+ ·006	460	5·7	+ ·029	692
— 5	10	4·5	+ ·038	341	4·0	+ ·025	315	4·6	+ ·030	456	4·4	+ ·016	533	5·7	+ ·044	776
10	15	4·6	+ ·042	264	4·2	+ ·043	234	4·6	+ ·031	322	4·9	+ ·023	399	5·4	+ ·067	505
15	20	4·3	+ ·037	315	4·0	+ ·049	313	4·6	+ ·012	446	4·5	+ ·018	497	5·2	+ ·063	610
20	25	5·5	+ ·032	617	4·5	+ ·059	289	4·9	+ ·005	490	4·7	+ ·013	510	5·5	+ ·093	800
25	30	6·0	+ ·025	930	3·6	+ ·057	152	4·9	— ·018	464	4·5	+ ·007	335	5·0	+ ·091	348
30	35	5·9	+ ·021	729	4·6	+ ·063	171	4·3	— ·022	247	3·8	+ ·016	140	4·9	+ ·168	146
35	40	5·7	— ·001	698	5·0	+ ·042	108	3·6	+ ·012	34	3·5	— ·012	136			
40	45	5·4	— ·001	719	5·4	+ ·091	71				3·7	— ·011	249			
45	50	5·6	+ ·035	579	4·9	+ ·101	61				4·3	+ ·006	293			
50	55	5·6	+ ·029	550	4·0	+ ·072	61				3·9	— ·026	188			
55	60	5·5	— ·055	669	3·5	+ ·019	113				3·1	— ·006	181			
60	65	5·4	— ·039	449	2·8	— ·036	37				3·4	+ ·009	129			
65	70	5·7	— ·036	496	3·5	— ·072	55				4·0	+ ·041	141			
70	75	6·1	+ ·006	344	4·5	— ·013	51				5·1	— ·058	89			
75	80	6·2	+ ·037	481	4·8	— ·081	140				5·2	— ·037	293			
80	85	6·6	— ·086	443	6·2	— ·143	348				6·3	— ·099	402			
—85 to	—90	7·1	— ·263	579	6·6	— ·364	391				6·8	— ·261	413			

Comparison with other Catalogues—in order of Declination.—Dec.

Group.	Cape 1880.			Melbourne 1880.			Greenwich 1880.			Cape 1885.			Radcliffe 1890.		
	δ	(90—80)	Weight.	δ	(90—M)	Weight.	δ	(90—G)	Weight.	δ	(90—85)	Weight.	δ	(90—R)	Weight.
+50 to +45	47°·72	+1″·26	32	46°·97	+2″·17	74	47°·67	+0″·76	279	47°·21	−1″·36	135	46°·98	+0″·09	75
45 40	44·90	−0·54	9	42·87	+1·15	100	42·27	+0·15	340	42·38	−1·37	128	42·70	+0·04	88
40 35	38·14	+0·72	37	38·60	+1·08	55	37·95	+0·05	417	38·13	−0·72	216	37·99	−0·40	145
35 30	32·36	−0·88	16	32·58	−0·53	66	32·65	−0·36	362	32·66	−0·68	178	32·91	−0·85	145
30 25	27·85	−0·58	72	27·68	−0·27	166	27·52	−0·05	510	27·70	−0·50	277	27·72	−0·93	222
25 20	22·14	−0·07	101	22·16	−0·36	166	22·55	+0·27	542	22·58	−0·27	265	22·14	−0·70	338
20 15	17·14	−0·20	70	17·65	−0·90	133	17·64	+0·14	482	17·47	−0·36	283	17·35	−0·71	308
15 10	12·68	−0·40	129	12·72	−0·56	242	12·59	+0·24	443	12·58	−0·24	350	12·61	−0·76	363
10 5	7·54	−0·39	247	7·78	−0·44	268	7·80	+0·27	463	7·73	−0·42	500	7·89	−0·76	312
+ 5 0	3·05	−0·14	164	2·98	−0·35	282	2·85	+0·01	460	3·00	−0·32	428	3·01	−0·68	226
0 − 5	2·23	−0·05	278	2·48	−0·39	249	2·10	+0·05	340	2·30	−0·32	431	2·53	−0·58	641
− 5 10	7·76	−0·06	269	7·96	−0·64	284	7·76	+0·40	455	7·83	−0·21	501	7·25	−0·57	705
10 15	12·53	+0·03	218	12·65	−0·49	219	12·57	+0·51	329	12·62	−0·21	394	12·36	−0·35	474
15 20	17·25	+0·08	234	16·88	−0·54	291	17·16	+0·42	454	17·12	−0·25	471	17·04	−0·40	554
20 25	23·39	+0·24	642	22·61	−0·55	289	22·83	+0·70	515	22·56	−0·15	499	22·73	−0·18	968
25 30	27·20	−0·19	925	26·94	−0·70	140	27·35	+0·54	460	27·36	−0·28	328	26·86	−0·23	361
30 35	32·43	−0·16	733	32·51	−0·84	174	32·55	+0·90	245	31·72	−0·37	137	32·86	+0·43	160
35 40	37·16	−0·30	701	36·65	−0·82	111	36·07	+3·04	39	37·47	−0·29	126			
40 45	42·33	−0·33	738	41·93	−0·87	73				42·60	−0·18	252			
45 50	47·15	+0·01	592	47·07	−0·68	62				47·44	−0·21	293			
50 55	52·35	+0·21	551	52·38	−0·42	59				52·46	−0·34	187			
55 60	57·51	+0·21	683	57·90	−0·55	111				57·66	−0·25	182			
60 65	62·27	+0·20	460	62·63	−0·32	37				62·57	−0·27	130			
65 70	67·56	+0·32	511	67·72	+0·05	54				67·43	−0·19	142			
70 75	72·65	+0·42	354	72·80	−0·43	51				73·10	+0·05	90			
75 80	77·63	+0·65	514	78·21	−0·14	134				77·70	−0·10	327			
80 85	82·72	+0·70	486	83·02	−0·03	390				82·81	+0·03	470			
−85 to −90	86·67	+0·08	638	86·99	−0·12	426				86·89	−0·19	422			

Reduction Tables of various Catalogues to the Cape Catalogue 1890.

Cape 1890—Cape 1880.

Dec. °	$\Delta\alpha_\delta$ s	$\Delta\delta_\delta$ ″
+20	+0·027	(—0·14)
+15	+ ·016	— ·30
+10	+ ·021	— ·39
+ 5	+ ·033	— ·26
0	+ ·030	— ·10
— 5	+ ·032	— ·05
—10	+ ·040	— ·02
—15	+ ·040	+ ·05
—20	+ ·035	+ ·16
—25	+ ·030	+ ·03
—25–35	+ ·023	— ·18
—35–45	— ·001	— ·32
—45–55	+ ·032	+ ·11
—55–65	— ·047	+ ·20
—65–75	— ·015	+ ·37

h.	$\Delta\alpha_\alpha$ s	$\Delta\delta_\alpha$ ″
0	+0·027	+0·03
1	+ ·035	+ ·08
2	+ ·034	+ ·10
3	+ ·026	+ ·11
4	+ ·019	+ ·12
5	+ ·010	+ ·12
6	— ·006	+ ·09
7	— ·020	+ ·05
8	— ·026	— ·01
9	— ·025	— ·05
10	— ·019	— ·12
11	— ·011	— ·12
12	— ·009	— ·08
13	— ·007	— ·02
14	— ·010	— ·01
15	— ·022	— ·02
16	— ·032	— ·05
17	— ·032	— ·06
18	— ·020	— ·05
19	— ·001	— ·04
20	+ ·010	— ·03
21	+ ·013	— ·02
22	+ ·016	— ·02
23	+ ·021	·00
24	+ ·027	+ ·03

Cape 1890—Melbourne 1880.

Dec. °	$\Delta\alpha_\delta$ s	$\Delta\delta_\delta$ ″
+30	+0·005	—0·40
+25	+ ·023	— ·32
+20	+ ·022	— ·63
+15	+ ·016	— ·73
+10	+ ·014	— ·50
+ 5	+ ·013	— ·40
0	+ ·020	— ·37
— 5	+ ·023	— ·53
—10	+ ·034	— ·56
—15	+ ·046	— ·52
—20	+ ·054	— ·54
—25	+ ·058	— ·62
—30	+ ·060	— ·77
—35	+ ·053	— ·83
—40	+ ·067	— ·85
—45	+ ·096	— ·77
—50	+ ·086	— ·55
—55	+ ·046	— ·49
—60	— ·009	— ·43
—65	— ·054	— ·14
—70	— ·043	— ·19
—75	— ·047	— ·29

h.	$\Delta\alpha_\alpha$ s	$\Delta\delta_\alpha$ ″
0	+0·050	—0·14
1	+ ·054	— ·15
2	+ ·050	— ·11
3	+ ·015	— ·06
4	— ·013	— ·03
5	— ·022	— ·03
6	— ·023	— ·06
7	— ·018	— ·08
8	— ·013	— ·10
9	— ·008	— ·11
10	— ·003	— ·07
11	— ·001	— ·03
12	— ·005	+ ·06
13	— ·012	+ ·15
14	— ·018	+ ·17
15	— ·024	+ ·16
16	— ·029	+ ·14
17	— ·031	+ ·13
18	— ·022	+ ·13
19	— ·010	+ ·12
20	+ ·005	+ ·12
21	+ ·019	+ ·04
22	+ ·034	— ·06
23	+ ·044	— ·13
24	+ ·050	— ·14

Cape 1890—Greenwich 1880.

Dec. °	$\Delta\alpha_\delta$ s	$\Delta\delta_\delta$ ″
+40	—0·028	+0·10
+35	— ·008	— ·15
+30	·000	— ·20
+25	+ ·012	+ ·11
+20	+ ·020	+ ·20
+15	+ ·020	+ ·19
+10	+ ·023	+ ·25
+ 5	+ ·033	+ ·14
0	+ ·038	+ ·03
— 5	+ ·033	+ ·22
—10	+ ·030	+ ·46
—15	+ ·021	+ ·47
—20	+ ·008	+ ·56
—25	— ·007	+ ·62
—30	— ·020	+ ·72
—35	(— ·005)	(+1·97)

h.	$\Delta\alpha_\alpha$ s	$\Delta\delta_\alpha$ ″
0	—0·002	+0·11
1	+ ·002	+ ·09
2	+ ·006	+ ·07
3	+ ·007	+ ·05
4	+ ·008	— ·01
5	+ ·008	— ·01
6	+ ·008	·00
7	+ ·006	·00
8	+ ·007	— ·02
9	+ ·010	— ·06
10	+ ·011	— ·12
11	+ ·008	— ·12
12	— ·002	— ·02
13	— ·015	+ ·12
14	— ·015	+ ·11
15	— ·009	— ·01
16	— ·004	— ·11
17	— ·004	— ·17
18	— ·003	— ·13
19	— ·003	— ·06
20	— ·005	+ ·02
21	— ·007	+ ·08
22	— ·011	+ ·12
23	— ·006	+ ·13
24	— ·002	+ ·11

Cape 1890—Cape 1885.

Dec. °	$\Delta\alpha_\delta$ s	$\Delta\delta_\delta$ Uncorrected. ″	$\Delta\delta_\delta$ Corrected.* ″
+40	—0·020	—1·05	(—0·43)
+35	— ·032	—0·70	— ·19
+30	— ·012	— ·59	— ·15
+25	— ·008	— ·38	+ ·02
+20	+ ·003	— ·32	+ ·04
+15	+ ·003	— ·30	+ ·03
+10	+ ·004	— ·33	— ·02
+ 5	+ ·007	— ·37	— ·08
0	+ ·007	— ·32	— ·05
— 5	+ ·011	— ·27	— ·01
—10	+ ·017	— ·21	+ ·03
—15	+ ·019	— ·23	·00
—20	+ ·015	— ·20	+ ·02
—25	+ ·010	— ·22	— ·01
—30	+ ·011	— ·32	— ·12
—35	+ ·002	— ·33	— ·15
—40	— ·011	— ·24	— ·07
—45	— ·003	— ·20	— ·04
—50	— ·010	— ·27	— ·12
—55	— ·016	— ·30	— ·16
—60	+ ·002	— ·26	— ·14
—65	+ ·025	— ·23	— ·12
—70	— ·008	— ·07	+ ·02
—75	— ·047	— ·03	+ ·04

* With the corrections given on p. 1 of the Catalogue.

h.	$\Delta\alpha_\alpha$ s	$\Delta\delta_\alpha$ ″
0	+0·018	+0·20
1	+ ·026	+ ·17
2	+ ·028	+ ·11
3	+ ·009	+ ·05
4	— ·003	— ·02
5	— ·017	— ·08
6	— ·023	— ·11
7	— ·029	— ·15
8	— ·030	— ·15
9	— ·025	— ·15
10	— ·015	— ·17
11	— ·005	— ·16
12	+ ·007	— ·09
13	+ ·011	— ·04
14	+ ·010	— ·02
15	+ ·004	— ·06
16	— ·002	— ·07
17	— ·005	— ·06
18	+ ·001	·00
19	+ ·005	+ ·06
20	+ ·007	+ ·10
21	+ ·007	+ ·15
22	+ ·007	+ ·21
23	+ ·010	+ ·24
24	+ ·018	+ ·20

Reduction Tables of various Catalogues to the Cape Catalogue 1890—*cont.*

Cape 1890—Radcliffe 1890.

Dec.	$\Delta\alpha_\delta$	$\Delta\delta_\delta$
°	s	″
+ 45	—0·068	+0·07
+ 40	— ·047	— ·18
+ 35	— ·039	— ·63
+ 30	— ·036	— ·89
+ 25	— ·035	— ·82
+ 20	— ·030	— ·70
+ 15	— ·023	— ·74
+ 10	— ·011	— ·76
+ 5	— ·003	— ·72
0	+ ·015	— ·63
— 5	+ ·037	— ·58
— 10	+ ·056	— ·46
— 15	+ ·065	— ·38
— 20	+ ·078	— ·29
— 25	+ ·092	— ·21
— 30	+ ·130	+ ·10

–	$\Delta\alpha_\alpha$	$\Delta\delta_\alpha$
	s	′
0	+0·016	+0·19
1	+ ·018	+ ·17
2	+ ·016	+ ·15
3	+ ·006	+ ·13
4	— ·004	+ ·11
5	— ·009	+ ·09
6	— ·010	+ ·07
7	— ·009	+ ·03
8	— ·005	— ·01
9	·000	— ·05
10	+ ·007	— ·10
11	+ ·008	— ·11
12	·000	— ·05
13	— ·007	+ ·01
14	— ·010	— ·02
15	— ·008	— ·12
16	— ·006	— ·22
17	— ·007	— ·23
18	— ·008	— ·20
19	— ·009	— ·14
20	— ·007	— ·06
21	— ·001	+ ·06
22	+ ·006	+ ·21
23	+ ·012	+ ·25
24	+ ·016	+ ·19

Cape 1890—Greenwich (5-year) 1890.

Dec.	$\Delta\alpha_\delta$	$\Delta\delta_\delta$
°	s	″
+ 40	—0·005	0·00
+ 35	— ·009	— ·15
+ 30	·000	— ·38
+ 25	+ ·007	— ·13
+ 20	+ ·021	+ ·06
+ 15	+ ·019	+ ·11
+ 10	+ ·023	+ ·21
+ 5	+ ·029	+ ·11
0	+ ·035	+ ·05
— 5	+ ·036	+ ·19
— 10	+ ·030	+ ·36
— 15	+ ·028	+ ·47
— 20	+ ·019	+ ·67
— 25	+ ·008	+ ·90
— 30	+ ·011	+1·13

Cape 1890—Auwers' Fund. Cat. (B.J. 1890).

Dec.	$\Delta\alpha_\delta$	$\Delta\delta_\delta$
°	s	″
+ 45	—0·070	+0·61
+ 40	— ·061	+ ·15
+ 35	— ·043	— ·22
+ 30	— ·024	— ·29
+ 25	— ·015	— ·12
+ 20	— ·003	·00
+ 15	— ·003	·00
+ 10	— ·003	·00
+ 5	+ ·005	+ ·02
0	+ ·017	+ ·09
— 5	+ ·015	+ ·14
— 10	+ ·010	+ ·32
— 15	+ ·007	+ ·48
— 20	— ·004	+ ·64
— 25	·090	+ ·71
— 30	·000	+ ·74

h	$\Delta\alpha_\alpha$	$\Delta\delta_\alpha$
	s	′
0	—0·003	+0·09
1	— ·001	+ ·06
2	— ·002	+ ·03
3	— ·003	+ ·03
4	— ·005	+ ·02
5	— ·004	+ ·02
6	— ·002	+ ·01
7	·000	+ ·01
8	+ ·006	·00
9	+ ·009	— ·06
10	+ ·012	— ·11
11	+ ·010	— ·13
12	+ ·008	— ·04
13	·000	+ ·03
14	— ·001	+ ·05
15	+ ·002	·00
16	+ ·003	— ·06
17	+ ·003	— ·07
18	·000	— ·06
19	— ·003	— ·06
20	— ·005	— ·02
21	— ·006	+ ·03
22	— ·005	+ ·09
23	— ·005	+ ·12
24	— ·003	+ ·09

Cape 1890—Newcomb (N. A. 1901).

Dec.	$\Delta\alpha_\delta$	$\Delta\delta_\delta$
°	s	″
+ 45	—0·060	+0·30
+ 40	— ·074	— ·05
+ 35	— ·054	— ·22
+ 30	— ·042	— ·32
+ 25	— ·036	— ·18
+ 20	— ·031	— ·06
+ 15	— ·038	— ·12
+ 10	— ·035	— ·11
+ 5	— ·032	— ·21
0	— ·031	— ·19
— 5	— ·035	— ·10
— 10	— ·034	— ·08
— 15	— ·032	— ·08
— 20	— ·038	— ·11
— 25	— ·041	— ·11
— 30	— ·042	— ·07
— 35	— ·050	— ·04
— 40	— ·055	— ·10
— 45	— ·039	+ ·06
— 50	— ·034	+ ·12
— 55	— ·044	— ·04
— 60	— ·034	— ·05
— 65	— ·051	— ·08
— 70	— ·083	+ ·12

COMPARISON OF THE STAR PLACES OF VARIOUS CATALOGUES WITH REFERENCE TO CORRECTIONS DEPENDING ON MAGNITUDE.

In order to ascertain whether the systematic differences of the Catalogues depend in any well marked degree upon magnitude, a comparison has been made between the present Catalogue and the Cape Catalogues for 1880 and 1885, the Greenwich and Melbourne Catalogues for 1880 and the Radcliffe Catalogue for 1890. The results are given in the following tables, the stars being grouped in zones of 5° in Declination, and each group subdivided into three divisions according to magnitude, viz., stars brighter than $4^{m}\cdot0$, stars $4^{m}\cdot0$ to $5^{m}\cdot9$, and stars of 6·0 magnitude or fainter.

The tables show that, in the case of the Declinations, there is no sensible systematic difference depending on magnitude, as indeed was to be expected.

Even in the case of the Right Ascensions no well-marked discordance due to magnitude-personality can be clearly traced, although the results for the groups of different magnitude in the same zones differ by quantities considerably larger than one would expect from their weights. The real explanation seems to be *not* that the Catalogue Right Ascensions are unaffected by errors depending on magnitude but that in each Catalogue the Right Ascensions depend on observations by a good many different observers, and that the average magnitude-personality of any considerable group of observers is a real and nearly constant error. In fact, the average observer always observes the transits of faint stars too late as compared with bright stars. Thus, if the Right Ascensions of any group of stars are derived from the meridian observations of a large number of different observers, and if the Right Ascensions of the same group of stars are derived from accurate Heliometer or Photographic observations it will be found that the Right Ascensions of the fainter stars will come out fully $0^{s}\cdot01$ per magnitude larger (relative to the brighter stars) from the heliometer and photographic observations than from the meridian observations.

In his discussion of the meridian observations of the Victoria Comparison Stars (Annals of the Cape Observatory, vol. VII., p. 710) Auwers employed observations with wire-gauze screens, which were carried out at various observatories, to determine the magnitude-error of the 27 series of observations of the Victoria Comparison Stars, and found it, in the mean, to be about $0^{s}\cdot015$ per magnitude. A comparison of the Right Ascensions thus derived with those resulting from the writer's discussion of the heliometer-triangulation of the same stars, showed that the residual error depending on magnitude was almost entirely eliminated ; whereas, if it had been neglected, the

discordance from the meridian observations would have been intolerably large. (Annals of the Cape Observatory, vol. VI., p. 143).

These facts prove :—

(1.) The reality of the corrections derived by Auwers.

(2.) That the average observer is affected by a fairly constant personal error depending on magnitude.

(3.) The efficiency of the screen method for determining this error.

It is now easy to see not only why the various catalogues do not differ much according to magnitude, but also why the different divisions of our groups do not accord better than they do.

Thus, on the one hand, two observers having very different magnitude-personality may have equally contributed to the observations on which a catalogue depends. In the mean their magnitude-personality may be the same as that of the average observer, (the more numerous the observers the more likely that this will be the case), and so, in the mean, the Right Ascensions of the catalogue may correspond for different magnitudes with the results of other catalogues. But on the other hand the whole of the observations of a particular faint star may happen to be made by the observer whose magnitude-personality is small, whilst those of another faint star may be made entirely by the observer whose magnitude-personality is large. In this way there may easily arise an error of $0^{s}\cdot10$ in the difference of Right Ascension of two stars of the same catalogue. Thus, in all future catalogues of precision it is of the greatest importance that the personal error depending on magnitude should be carefully determined for all the observers.

CAPE 1890 — CAPE 1880. R.A.

Brighter than $4^{m}\cdot0$.					$4^{m}\cdot0$ to $5^{m}\cdot9$.					$6^{m}\cdot0$ and fainter.				
No.	Weight.	δ	Mag.	$d\,\alpha$	No.	Weight.	δ	Mag.	$d\,\alpha$	No.	Weight.	δ	Mag.	$d\,\alpha$
		° ′		s			° ′		s			° ′		s
1	2	+45 54	0·2	+0·010	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
2	8	+37 19	1·20	—0·108	1	3	+39 54	5·1	—0·010	...	...	...	...	...
5	44	+32 14	3·20	+0·004	1	6	+31 6	4·0	—0·050	...	...	...	...	..
7	72	+28 16	2·46	+0·017	9	82	+27 17	4·87	+0·014	1	5	+27 48	6·50	—0·030
10	94	+22 12	3·13	+0·021	9	65	+22 22	4·68	+0·055	...	...	...	...	...
7	79	+16 58	2·79	+0·026	6	49	+17 54	4·68	+0·015	1	15	+18 12	6·60	0·000
12	149	+12 47	3·01	+0·020	9	105	+12 29	4·68	+0·006	...	...	...	...	...
15	139	+ 7 58	3·02	+0·019	22	198	+ 7 31	4·41	+0·038	2	29	+ 7 20	8·55	+0·034
10	102	+ 3 18	3·48	+0·031	18	134	+ 2 56	4·60	+0·037	...	...	...	...	...
14	134	— 1 41	3·16	+0·022	23	162	— 1 59	4·72	+0·034	11	57	— 3 9	6·57	+0·010
15	148	— 8 17	3·05	+0·036	30	174	— 7 36	4·89	+0·039	4	19	— 7 4	6·38	+0·054
12	111	—12 19	3·43	+0·063	26	139	—12 31	4·93	+0·027	3	14	—12 27	6·67	+0·034
17	145	—16 58	3·07	+0·043	23	153	—17 28	4·87	+0·030	3	17	—17 7	6·57	+0·042
18	132	—22 53	3·34	+0·051	54	277	—23 10	5·09	+0·019	44	208	—23 54	6·90	+0·037
16	117	—27 16	2·85	+0·052	58	336	—27 24	5·21	+0·031	94	477	—27 5	6·98	+0·014
16	107	—32 32	3·23	+0·034	45	257	—32 47	5·13	+0·020	68	365	—32 9	7·08	+0·018
18	109	—37 20	3·03	—0·023	44	260	—37 12	5·02	+0·035	61	329	—37 5	6·89	—0·022
21	128	—42 1	3·13	+0·021	58	332	—42 43	4·89	—0·002	47	259	—41 59	6·97	—0·010
16	101	—47 21	3·07	+0·030	37	231	—47 6	4·82	+0·059	42	247	—47 8	7·19	+0·015
15	99	—52 13	2·99	+0·036	36	222	—52 41	5·06	+0·037	41	229	—52 5	7·02	+0·021
18	122	—57 53	2·63	—0·036	47	295	—57 44	5·02	—0·042	44	252	—57 1	7·14	—0·079
15	114	—62 34	3·19	—0·011	31	191	—62 24	4·87	—0·021	26	144	—61 49	7·18	—0·083
12	95	—67 36	3·22	+0·013	29	189	—67 39	5·05	—0·035	35	212	—67 32	7·06	—0·058
2	19	—73 16	3·35	+0·048	23	150	—72 9	5·14	+0·058	29	175	—73 5	7·09	—0·043
4	34	—78 9	3·58	+0·080	29	201	—77 40	5·10	+0·038	40	246	—77 33	7·17	+0·031
...	...	...	...	...	19	134	—82 1	5·34	—0·014	42	309	—82 58	7·23	—0·117
...	...	...	...	...	9	112	—86 40	5·61	—0·340	48	467	—86 40	7·36	—0·244

CAPE 1890—MELBOURNE 1880. R.A.

		° ′		s			° ′		s			° ′		s
3	14	+46 1	2·33	—0·041	1	3	+45 12	4·20	+0·010	...	...	...	...	...
5	22	+42 22	3·14	—0·010	3	19	+41 39	4·20	—0·063	...	...	...	...	...
2	17	+38 7	2·05	—0·035	1	8	+39 30	5·20	—0·070	...	...	...	...	...
6	78	+32 22	3·10	—0·005	...	...	...	...	...	...	...	...	...	...
7	87	+28 14	2·46	+0·005	8	91	+27 5	4·78	+0·023	1	5	+27 29	6·50	—0·010
11	125	+22 22	3·14	+0·030	6	55	+21 43	4·92	+0·041	1	5	+20 29	6·50	—0·060
7	95	+17 5	2·79	+0·008	4	42	+18 35	4·60	+0·022	1	17	+18 12	6·60	+0·020
12	171	+12 44	3·01	+0·002	8	114	+12 32	4·73	+0·017	...	...	...	...	...
10	150	+ 8 13	2·93	—0·011	13	170	+ 7 29	4·33	+0·022	...	...	...	...	...
12	145	+ 2 59	3·50	+0·012	16	161	+ 3 7	4·62	+0·026	...	...	...	...	...

CAPE 1890 — CAPE 1880. DEC.

Brighter than $4^{m}\cdot0$.					$4^{m}\cdot0$ to $5^{m}\cdot9$.					$6^{m}\cdot0$ and fainter.				
No.	Weight.	δ	Mag.	$d\,\delta$	No.	Weight.	δ	Mag.	$d\,\delta$	No.	Weight.	δ	Mag.	$d\,\delta$
		° ′		″			° ′		″			° ′		″
3	25	+47 37	2·00	+0·72	1	7	+48 6	4·20	+3·16	...	...	...	...	...
2	9	+44 54	1·80	−0·54	...	...	...	...	...	...	...	...	...	...
3	19	+37 49	1·83	−0·16	3	18	+38 29	4·63	+1·64	...	...	...	...	...
4	16	+32 22	3·20	−0·88	...	...	...	...	...	...	...	...	...	...
6	29	+28 25	2·42	−0·61	8	38	+27 25	4·78	−0·71	1	5	+27 48	6·50	+0·58
10	57	+22 18	3·13	−0·10	8	44	+21 56	4·76	−0·03	...	...	...	...	...
7	39	+16 47	2·79	−0·37	6	28	+17 32	4·68	+0·04	1	3	+18 12	6·60	−0·23
12	82	+12 47	3·01	−0·35	9	47	+12 29	4·68	−0·47	...	...	...	...	...
15	93	+ 7 59	3·02	−0·50	22	137	+ 7 26	4·41	−0·36	2	17	+ 6 35	8·55	−0·07
10	62	+ 3 17	3·48	−0·15	19	102	+ 2 54	4·63	−0·13	...	...	...	...	...
14	94	− 1 46	3·16	−0·08	23	129	− 2 12	4·72	−0·07	11	55	− 3 5	6·57	+0·01
15	105	− 8 11	3·05	−0·01	30	145	− 7 33	4·89	−0·07	4	19	− 7 4	6·38	−0·24
12	71	−12 25	3·43	+0·01	26	133	−12 35	4·93	+0·04	3	14	−12 27	6·67	+0·10
17	101	−16 50	3·07	+0·03	23	118	−17 37	4·87	+0·10	3	15	−17 14	6·57	+0·18
18	110	−22 48	3·34	−0·09	54	285	−23 11	5·09	+0·28	48	247	−23 53	6·21	+0·34
16	105	−27 17	2·85	−0·36	57	325	−27 25	5·21	−0·09	95	495	−27 2	6·98	−0·07
16	103	−32 33	3·23	−0·37	45	259	−32 48	5·13	−0·06	68	371	−32 8	7·08	−0·17
18	109	−37 20	3·03	−0·40	44	260	−37 11	5·02	−0·18	61	332	−37 5	6·89	−0·36
21	127	−42 1	3·13	−0·42	58	345	−42 41	4·89	−0·16	48	266	−42 1	6·98	−0·49
17	109	−47 20	3·09	−0·09	37	235	−47 5	4·82	+0·15	42	248	−47 8	7·19	−0·07
15	100	−52 13	2·99	+0·11	36	222	−52 41	5·06	+0·37	41	229	−52 5	7·02	+0·10
18	130	−57 59	2·63	+0·07	47	301	−57 45	5·02	+0·43	44	252	−56 59	7·14	+0·03
15	119	−62 37	3·19	+0·14	31	196	−62 24	4·87	+0·29	26	145	−61 47	7·18	+0·12
12	101	−67 35	3·22	+0·28	29	193	−67 37	5·05	+0·59	35	217	−67 31	7·06	+0·11
2	19	−73 16	3·35	+0·43	23	156	−72 7	5·14	+0·29	29	179	−73 3	7·09	+0·52
4	34	−78 9	3·58	+1·15	29	221	−77 40	5·10	+0·49	41	259	−77 32	7·17	+0·71
...	...	...	...	...	19	159	−82 5	5·34	+0·77	43	337	−82 56	7·26	+0·64
...	...	...	...	...	9	133	−86 37	5·61	+0·19	48	505	−86 41	7·36	+0·06

CAPE 1890—MELBOURNE 1880. DEC.

		° ′		″			° ′		″			° ′		″
7	63	+47 13	2·74	+2·11	2	11	+45 33	4·55	+2·47	...	...	...	...	...
8	68	+43 22	2·88	+1·14	4	32	+41 48	4·22	+1·15	...	...	...	...	...
3	35	+38 29	2·40	+1·06	2	20	+38 47	5·10	+1·11	...	...	...	...	...
6	66	+32 21	3·10	−0·53	...	...	...	...	...	...	...	...	...	...
7	80	+28 24	2·46	−0·09	8	81	+27 8	4·78	−0·40	1	5	+27 29	6·50	−1·04
11	114	+22 23	3·14	−0·41	6	47	+21 46	4·92	−0·11	1	5	+20 29	6·50	−1·70
7	85	+17 12	2·79	−1·00	4	34	+18 32	4·60	−0·84	1	14	+18 12	6·60	−0·40
12	142	+12 52	3·01	−0·62	8	100	+12 31	4·73	−0·55	...	...	...	...	...
10	127	+ 8 9	2·93	−0·38	13	141	+ 7 27	4·33	−0·49	...	...	...	...	...
13	132	+ 2 53	3·52	−0·45	16	150	+ 3 3	4·62	−0·27	...	...	...	...	...

CAPE 1890—MELBOURNE 1880. R.A—*continued.*

Brighter than $4^{m}\cdot0$.					$4^{m}\cdot0$ to $5^{m}\cdot9$.					$6^{m}\cdot0$ and fainter.				
No.	Weight.	δ	Mag.	$d\,\alpha$	No.	Weight.	δ	Mag.	$d\,\alpha$	No.	Weight.	δ	Mag.	$d\,\alpha$
		° ′		s			° ′		s			° ′		s
11	125	— 2 1	3·17	+0·006	13	122	— 2 30	4·68	+0·031	3	29	— 3 56	6·17	+0·027
16	196	— 8 16	3·10	+0·016	18	119	— 7 35	4·86	+0·039	...	...	...	...	...
12	126	—12 22	3·43	+0·041	15	108	—12 51	4·77	+0·045	...	...	...	...	...
16	161	—16 49	3·01	+0·045	17	141	—16 56	4·80	+0·054	1	11	—16 18	6·20	+0·050
16	130	—22 59	3·31	+0·039	22	127	—22 29	4·87	+0·068	6	32	—21 53	6·22	+0·100
9	87	—27 14	2·47	+0·040	8	65	—26 44	4·85	+0·079	...	...	...	...	...
8	59	—32 14	2·93	+0·059	15	91	—32 50	5·01	+0·058	4	21	—31 51	6·58	+0·094
3	18	—36 32	2·97	+0·007	11	70	—36 22	4·96	+0·050	4	20	—37 44	6·45	+0·045
1	6	—41 36	2·50	+0·020	8	47	—41 34	5·30	+0·082	3	18	—43 3	6·53	+0·138
1	11	—47 30	1·90	+0·120	6	36	—47 7	4·80	+0·109	2	14	—46 36	6·90	+0·065
3	27	—52 29	1·27	—0·010	5	28	—52 7	5·20	+0·174	1	6	—53 0	6·30	—0·030
7	73	—57 46	1·97	+0·010	4	28	—57 16	5·20	+0·054	1	12	—59 6	7·40	—0·010
4	37	—62 38	2·78	—0·036	...	...	...	...	...	...	...	...	...	...
4	39	—68 8	2·53	—0·044	1	10	—66 0	4·10	—0·090	1	6	—68 18	6·90	—0·220
1	12	—74 48	3·10	—0·060	4	39	—72 15	4·88	+0·002	...	...	...	...	...
1	14	—77 54	2·90	+0·100	9	108	—78 13	4·70	—0·077	2	18	—77 39	6·00	—0·250
...	...	...	...	...	14	175	—82 35	5·37	—0·156	14	173	—83 23	6·99	—0·129
...	...	...	...	...	8	128	—86 41	5·58	—0·154	18	263	—87 8	7·02	—0·527

CAPE 1890—GREENWICH 1880. R.A.

		° ′		s			° ′		s			° ′		s
4	19	+46 43	2·85	—0·083	6	25	+47 11	4·90	—0·136	1	3	+48 6	6·40	+0·072
8	42	+41 52	3·34	—0·011	12	52	+41 32	4·93	—0·066	4	19	+42 20	6·30	—0·038
8	42	+38 35	3·01	+0·006	23	101	+37 29	4·87	—0·032	2	15	+37 9	6·55	+0·045
14	129	+32 54	3·18	—0·014	24	162	+32 31	4·97	+0·007	4	23	+31 52	6·50	—0·002
15	145	+28 5	2·94	—0·004	31	247	+27 19	5·01	+0·004	9	56	+27 9	6·23	+0·016
17	183	+22 35	3·24	+0·018	28	233	+22 21	4·92	+0·018	11	66	+23 3	6·41	+0·036
13	144	+17 3	3·18	+0·011	27	211	+18 4	4·98	+0·028	12	85	+17 37	6·34	+0·019
14	174	+12 58	3·11	+0·014	23	231	+12 14	4·95	+0·026	2	16	+13 34	6·00	—0·010
14	167	+ 8 13	3·10	+0·010	23	252	+ 7 26	4·59	+0·038	4	41	+ 8 23	7·68	+0·032
11	139	+ 2 59	3·46	+0·017	29	266	+ 2 51	4·83	+0·047	5	26	+ 2 15	7·48	+0·081
12	136	— 2 13	3·08	+0·040	20	167	— 1 49	4·76	+0·035	4	33	— 3 35	6·60	+0·022
15	180	— 8 14	3·05	+0·022	31	242	— 7 27	4·91	+0·036	6	34	— 6 47	6·85	+0·035
11	122	—12 13	3·42	+0·027	22	178	—12 40	4·90	+0·039	3	22	—12 35	6·80	—0·006
14	168	—17 1	2·98	+0·010	30	241	—17 25	5·05	+0·017	6	37	—16 56	6·42	—0·013
17	144	—22 43	3·29	—0·002	47	276	—22 50	5·03	+0·009	13	70	—23 11	6·68	+0·006
15	132	—27 15	2·78	—0·013	41	263	—27 28	5·18	—0·015	12	69	—27 8	6·66	—0·041
11	88	—32 40	3·02	—0·025	20	151	—32 39	4·81	—0·020	1	8	—31 18	7·20	—0·029
3	24	—36 2	2·67	—0·056	2	10	—35 27	4·90	+0·176	...	...	...	...	...

CAPE 1890—MELBOURNE 1880. DEC.—*continued.*

Brighter than $4^m.0$.					$4^m.0$ to $5^m.9$.					$6^m.0$ and fainter.				
No.	Weight.	δ	Mag.	$d\,\delta$	No.	Weight.	δ	Mag.	$d\,\delta$	No.	Weight.	δ	Mag.	$d\,\delta$
		° ′		″			° ′		″			° ′		″
11	104	— 2 7	3·17	—0·31	13	116	— 2 32	4·68	—0·36	2	23	— 3 34	6·20	—0·67
16	171	— 8 8	3·10	—0·70	17	113	— 7 41	4·80	—0·55	...	...	...	...	...
12	117	—12 31	3·43	—0·52	15	102	—12 49	4·77	—0·45	...	...	...	...	...
16	149	—16 26	3·01	—0·58	17	132	—16 59	4·80	—0·50	1	10	—16 18	6·20	—0·47
16	124	—22 53	3·31	—0·58	22	131	—22 30	4·87	—0·53	6	34	—21 58	6·22	—0·53
8	76	—27 10	2·43	—0·75	8	64	—26 40	4·85	—0·64	...	...	...	...	...
8	59	—32 14	2·93	—0·77	15	93	—32 50	5·01	—0·90	4	22	—31 48	6·58	—0·79
3	19	—36 29	2·97	—0·86	11	71	—36 23	4·96	—0·68	4	21	—37 41	6·45	—1·28
1	6	—41 36	2·50	—0·21	8	48	—41 33	5·30	—0·86	3	19	—43 0	6·53	—1·10
1	11	—47 30	1·90	—0·94	6	37	—47 7	4·80	—0·30	2	14	—46 36	6·90	—1·49
3	25	—52 31	1·27	—0·29	5	28	—52 7	5·20	—0·44	1	6	—53 0	6·30	—0·81
7	70	—57 58	1·97	—0·63	4	29	—57 14	5·20	—0·42	1	12	—59 6	7·40	—0·36
4	37	—62 38	2·78	—0·32	...	...	...	...	...	...	...	...	...	...
4	38	—68 5	2·53	—0·23	1	10	—66 0	4·10	—0·39	1	6	—68 18	6·90	+1·27
1	12	—74 48	3·10	—0·55	4	39	—72 15	4·88	—0·39	...	...	...	...	...
1	15	—77 54	2·90	+0·33	9	103	—78 24	4·70	—0·18	2	16	—77 17	6·00	—0·30
...	...	...	...	...	14	204	—82 37	5·37	+0·19	14	186	—83 28	6·99	—0·27
...	...	...	...	...	8	140	—86 41	5·58	—0·20	18	286	—87 8	7·02	—0·08

CAPE 1890—GREENWICH 1880. DEC.

		° ′		″			° ′		″			° ′		″
11	102	+47 32	3·21	+0·89	21	154	+47 48	4·93	+0·78	4	23	+47 20	6·38	0·00
11	118	+42 38	3·00	+0·14	22	161	+42 2	4·93	+0·11	10	61	+42 11	6·33	+0·28
11	117	+38 33	3·11	—0·06	31	262	+37 46	4·88	+0·15	5	38	+37 22	6·42	—0·28
15	155	+32 59	3·22	—0·53	24	181	+32 30	4·97	—0·21	4	26	+31 37	6·50	—0·40
15	169	+28 6	2·94	—0·15	31	281	+27 16	5·01	+0·01	9	60	+27 5	6·23	—0·07
17	198	+22 35	3·24	+0·30	28	271	+22 24	4·92	+0·28	11	73	+23 2	6·41	+0·14
13	158	+17 3	3·18	+0·08	27	223	+18 4	4·98	+0·21	13	101	+17 37	6·32	+0·10
14	179	+13 1	3·11	+0·25	23	247	+12 13	4·95	+0·24	2	17	+13 32	6·00	+0·19
14	164	+ 8 12	3·10	+0·32	23	257	+ 7 27	4·59	+0·23	4	42	+ 8 22	7·68	+0·29
12	150	+ 2 59	3·49	+0·07	29	282	+ 2 51	4·83	+0·02	5	28	+ 2 8	7·48	—0·41
12	143	— 2 14	3·08	—0·10	19	170	— 1 47	4·72	+0·20	3	27	— 3 28	6·77	+0·07
15	178	— 8 16	3·05	+0·40	28	240	— 7 32	4·84	+0·40	6	37	— 6 47	6·85	+0·45
11	127	—12 20	3·42	+0·59	22	176	—12 41	4·90	+0·52	4	26	—12 56	6·75	+0·08
14	171	—16 56	2·98	+0·44	30	251	—17 23	5·05	+0·39	5	32	—16 32	6·26	+0·57
17	146	—22 43	3·29	+0·73	47	295	—22 47	5·05	+0·68	13	74	—23 13	6·68	+0·69
15	130	—27 13	2·78	+0·47	40	266	—27 28	5·17	+0·61	11	64	—27 8	6·67	+0·43
10	85	—32 32	2·93	+1·60	20	151	—32 38	4·81	+0·61	1	9	—31 18	7·20	—0·77
3	29	—36 17	2·67	+3·02	2	10	—35 27	4·90	+3·12	...	...	...	...	...

CAPE 1890—CAPE 1885. R.A.

Brighter than $4^{m}.0$.					$4^{m}.0$ to $5^{m}.9$.					$6^{m}.0$ and fainter.				
No.	Weight.	δ	Mag.	$d\alpha$	No.	Weight.	δ	Mag.	$d\alpha$	No.	Weight.	δ	Mag.	$d\alpha$
		° ′		s			° ′		s			° ′		s
5	24	+46 21	2·90	−0·071	...	...	...	...	...	...	...	...	...	...
5	26	+41 35	3·44	+0·018	4	16	+41 28	4·60	+0·014	...	...	...	...	...
9	49	+37 55	2·92	−0·069	9	45	+38 14	4·88	−0·059	1	6	+38 24	6·00	+0·051
10	87	+32 57	3·29	−0·021	12	90	+32 22	4·72	+0·006	...	...	...	...	...
14	120	+28 10	2·89	−0·030	19	161	+27 16	4·60	−0·008	1	5	+27 54	6·10	−0·021
16	152	+22 50	3·22	−0·014	18	120	+22 17	4·76	+0·020	...	...	...	...	...
13	141	+17 1	3·19	−0·018	17	137	+17 56	4·71	+0·038	3	25	+17 14	6·33	−0·032
15	170	+12 41	3·16	−0·008	18	187	+12 26	4·89	0·000	...	...	...	...	...
15	187	+ 8 2	3·02	−0·009	28	333	+ 7 29	4·56	+0·017	3	21	+ 8 56	8·67	+0·027
11	162	+ 3 12	3·50	−0·001	25	272	+ 2 49	4·72	+0·012	3	7	+ 1 13	8·20	−0·004
14	176	− 2 10	3·14	+0·001	20	221	− 2 23	4·74	+0·011	5	52	− 2 56	6·28	+0·006
16	228	− 7 58	3·10	+0·010	30	281	− 7 44	4·87	+0·020	3	24	− 7 10	6·40	+0·025
12	156	−12 19	3·43	+0·017	20	198	−12 53	4·86	+0·033	8	45	−12 33	7·44	−0·001
16	202	−16 47	3·05	+0·028	25	249	−17 29	4·82	+0·015	6	46	−17 50	6·82	−0·010
19	194	−22 41	3·34	+0·020	31	267	−22 41	4·89	+0·014	9	49	−21 40	6·60	+0·023
15	145	−27 18	2·81	+0·012	17	150	−27 36	4·88	0·000	7	40	−26 47	6·99	+0·018
10	90	−31 41	2·87	+0·014	5	45	−31 52	4·88	+0·023	1	5	−31 30	7·00	−0·009
14	110	−37 40	2·92	−0·026	4	19	−36 11	4·75	+0·043	1	7	−38 12	6·50	+0·057
19	152	−42 10	3·11	−0·013	14	97	−43 18	4·39	−0·008	...	...	...	...	...
16	154	−47 20	3·05	−0·004	12	99	−47 43	4·41	+0·014	6	40	−47 14	7·30	+0·025
15	137	−52 20	2·99	−0·040	4	34	−52 58	4·40	+0·028	3	17	−52 22	8·03	−0·028
15	137	−57 50	2·43	+0·003	5	41	−57 1	4·40	−0·040	1	3	−59 6	7·40	+0·025
13	97	−62 49	3·15	+0·016	4	32	−61 44	4·35	−0·014	...	...	...	...	...
10	87	−67 41	3·09	+0·075	5	40	−66 59	4·56	+0·008	2	14	−66 57	7·30	−0·078
2	21	−72 43	3·35	−0·004	5	39	−72 13	4·28	+0·003	5	29	−74 40	6·72	−0·178
4	35	−78 11	3·58	+0·036	15	166	−77 33	5·02	−0·033	8	92	−77 43	6·49	−0·072
...	...	...	...	...	16	190	−82 32	5·37	−0·053	18	212	−83 16	7·06	−0·140
...	...	...	...	...	7	110	−86 43	5·54	−0·614	24	303	−87 0	7·14	−0·132

CAPE 1890—RADCLIFFE 1890. R.A.

		° ′		s			° ′		s			° ′		s
2	10	+46 9	2·00	+0·012	2	8	+47 56	4·25	−0·211	...	...	...	...	...
4	17	+42 17	3·48	−0·005	2	10	+41 42	4·20	−0·107	1	3	+43 30	7·20	−0·107
7	40	+37 41	2·67	−0·043	5	22	+37 13	4·52	−0·048	...	...	...	...	...
9	75	+32 52	3·39	−0·043	7	47	+32 32	4·53	−0·014	...	...	...	...	...
12	109	+28 19	2·85	−0·040	11	110	+27 7	4·67	−0·046	1	6	+27 18	7·30	+0·023
12	124	+22 16	3·03	−0·020	13	124	+21 49	4·65	−0·022	19	112	+22 26	7·65	−0·044
12	127	+17 7	3·16	−0·036	10	82	+17 47	4·67	−0·033	18	111	+17 17	7·66	−0·026
15	178	+12 46	3·16	−0·021	11	137	+12 34	4·78	−0·023	17	97	+12 26	7·85	+0·011
9	138	+ 8 22	2·83	−0·033	19	234	+ 7 23	4·49	+0·003	5	38	+ 9 23	8·30	+0·011

CAPE 1890—CAPE 1885. DEC.

Brighter than $4^{m}.0$.					$4^{m}.0$ to $5^{m}.9$.					$6^{m}.0$ and fainter.				
No.	Weight.	δ	Mag.	$d\,\delta$	No.	Weight.	δ	Mag.	$d\,\delta$	No.	Weight.	δ	Mag.	$d\,\delta$
		° ′		″			° ′		″			° ′		″
11	116	+47 22	3·20	−1·39	2	19	+46 14	4·15	−1·16	...	...	...	...	...
8	74	+42 49	3·06	−1·35	5	54	+41 49	4·56	−1·41	...	...	...	...	...
12	111	+38 15	3·03	−0·62	14	99	+37 59	4·75	−0·83	1	6	+38 24	6·00	−0·90
10	88	+32 58	3·29	−0·86	12	90	+32 22	4·72	−0·50	...	...	...	...	...
13	118	+28 11	2·82	−0·59	19	154	+27 19	4·60	−0·47	1	5	+27 54	6·10	+0·26
16	153	+22 47	3·22	−0·28	16	112	+22 18	4·78	−0·25	...	...	...	...	...
13	128	+17 4	3·19	−0·43	16	131	+17 55	4·76	−0·34	3	24	+17 12	6·33	−0·13
15	168	+12 44	3·16	−0·37	18	182	+12 26	4·89	−0·11	...	...	...	...	...
15	182	+ 8 0	3·02	−0·45	26	299	+ 7 29	4·52	−0·40	3	19	+ 8 53	8·67	−0·34
12	164	+ 3 13	3·53	−0·45	23	257	+ 2 55	4·65	−0·26	3	7	+ 1 13	8·20	+0·78
14	172	− 2 9	3·14	−0·36	19	210	− 2 25	4·70	−0·25	4	38	− 2 32	6·33	−0·50
16	227	− 7 56	3·10	−0·29	27	254	− 7 46	4·79	−0·12	3	20	− 7 23	6·40	−0·59
12	164	−12 19	3·43	−0·23	19	187	−12 54	4·83	−0·12	8	43	−12 33	7·44	−0·49
16	208	−16 48	3·05	−0·21	25	243	−17 25	4·82	−0·30	3	20	−16 49	7·17	−0·16
19	196	−22 43	3·34	−0·27	30	252	−22 37	4·90	−0·07	9	51	−21 43	6·60	−0·05
15	146	−27 17	2·81	−0·35	16	143	−27 37	4·83	−0·29	7	39	−26 47	6·99	+0·04
10	91	−31 40	2·87	−0·41	5	46	−31 51	4·88	−0·29	...	...	...	...	...
14	110	−37 40	2·92	−0·32	3	16	−36 12	4·53	−0·10	...	...	...	...	...
19	151	−42 11	3·11	−0·21	15	101	−43 14	4·45	−0·14	...	...	...	...	...
16	152	−47 19	3·05	−0·10	12	100	−47 42	4·41	−0·29	6	41	−47 14	7·30	−0·40
15	137	−52 20	2·99	−0·37	4	33	−53 0	4·40	−0·44	3	17	−52 22	8·03	+0·12
15	139	−57 50	2·43	−0·42	5	40	−56 58	4·40	+0·31	1	3	−59 6	7·40	−0·09
13	98	−62 50	3·15	−0·32	4	32	−61 44	4·35	−0·12	...	...	...	...	...
10	88	−67 43	3·09	−0·29	5	40	−66 59	4·56	+0·09	2	14	−66 57	7·30	−0·38
2	22	−72 38	3·35	−0·49	5	39	−72 13	4·28	−0·03	5	29	−74 40	6·72	+0·53
4	38	−78 11	3·58	+0·35	15	187	−77 34	5·02	−0·16	8	102	−77 45	6·49	−0·15
...	...	...	...	...	17	228	−82 29	5·38	+0·08	18	242	−83 7	7·06	−0·01
...	...	...	...	...	7	113	−86 43	5·54	−0·17	23	309	−86 57	7·13	−0·20

CAPE 1890—RADCLIFFE 1890. DEC.

		° ′		″			° ′		″			° ′		″
5	41	+46 56	2·60	+0·25	5	34	+47 2	4·46	−0·11	...	...	...	...	...
6	50	+42 57	3·18	+0·30	3	29	+42 1	4·23	−0·43	1	9	+43 30	7·20	+0·07
9	83	+38 22	2·77	−0·60	8	62	+37 29	4·45	−0·13	...	...	...	...	...
9	90	+33 5	3·39	−0·97	7	55	+32 37	4·53	−0·67	...	...	...	...	...
12	118	+28 20	2·85	−1·00	11	98	+26 59	4·67	−0·88	1	6	+27 18	7·30	−0·52
12	121	+22 12	3·03	−0·72	13	106	+21 46	4·65	−0·06	19	111	+22 27	7·65	−0·75
12	124	+17 20	3·16	−0·73	10	74	+17 48	4·67	−0·76	18	110	+17 16	7·66	−0·64
15	153	+12 45	3·16	−0·91	11	113	+12 34	4·78	−0·95	17	97	+12 26	7·85	−0·29
9	93	+ 8 19	2·83	−0·83	19	185	+ 7 24	4·49	−0·73	5	34	+ 9 23	8·30	−0·72

CAPE 1890—RADCLIFFE 1890. R.A.—*continued.*

Brighter than $4^{m}\cdot0$.					$4^{m}\cdot0$ to $5^{m}\cdot9$.					$6^{m}\cdot0$ and fainter.				
No.	Weight.	δ	Mag.	$d\alpha$	No.	Weight.	δ	Mag.	$d\alpha$	No.	Weight.	δ	Mag.	$d\alpha$
		° ′		s			° ′		s			° ′		s
10	125	+ 3 17	3·47	−0·010	12	134	+ 2 55	4·75	+0·008	4	23	+ 1 57	6·88	+0·025
15	159	− 1 52	3·17	+0·005	30	248	− 2 10	4·88	+0·031	45	279	− 3 12	7·14	+0·041
16	192	− 8 15	3·10	+0·044	41	287	− 7 23	4·96	+0·040	48	297	− 6 44	7·24	+0·047
12	131	−12 17	3·43	+0·067	30	214	−12 23	4·97	+0·067	27	160	−12 10	6·71	+0·068
17	185	−16 52	3·06	+0·062	39	288	−17 18	5·10	+0·065	24	137	−17 5	6·73	+0·062
19	150	−22 52	3·34	+0·085	61	351	−22 59	5·07	+0·091	54	299	−22 39	6·65	+0·099
12	91	−26 46	2·78	+0·091	30	191	−27 16	5·12	+0·075	11	66	−26 17	6·60	+0·138
6	41	−32 39	2·93	+0·134	13	76	−32 36	5·02	+0·189	6	29	−33 1	6·75	+0·159

Determination of the Effect of Star Magnitudes in Observed Times of Transit.

The following observations were made, in 1890 March to June, to determine the effect of magnitude on the observed time of transit.

The selected stars lay within the limits of + 25° and − 25° Declination.

A star was observed over two or more wires by eye and ear, then a screen was interposed and the star, reduced 1·8 magnitudes in brightness, was observed over the remaining wires by eye and ear. For the next star the observations were begun with the interposed screen ending with the clear aperture ; thus the effects of errors in the assumed wire intervals are entirely eliminated from the mean result.

A similar series was made by chronographic registration.

In the following tables the column marked "Mean Mag." denotes the mean magnitude of the group of stars actually observed.

The following numerical results represent—

Clock time of observed transit without screen, reduced to middle wire. } *minus* { Clock time of observed transit with screen, reduced to middle wire.

CAPE 1890—RADCLIFFE 1890. DEC.—*continued.*

Brighter than $4^{m}.0$.					$4^{m}.0$ to $5^{m}.9$.					$6^{m}.0$ and fainter.				
No.	Weight.	δ	Mag.	$d\,\delta$	No.	Weight.	δ	Mag.	$\delta\,d$	No.	Weight.	δ	Mag.	$\delta\,d$
		° ′		″			° ′		″			° ′		″
10	97	+ 3 16	3·47	—0·69	11	106	+ 3 2	4·67	—0·69	4	23	+ 1 48	6·88	—0·55
15	141	— 1 51	3·17	—0·74	29	222	— 2 10	4·86	—0·52	44	272	— 3 0	7·17	—0·53
16	157	— 8 7	3·10	—0·54	38	247	— 7 22	4·91	—0·50	48	301	— 6 43	7·24	—0·64
12	117	—12 22	3·43	—0·28	30	196	—12 33	4·97	—0·33	27	161	—12 7	6·71	—0·42
17	160	—16 46	3·06	—0·39	39	273	—18 2	5·10	—0·46	21	121	—16 50	6·77	—0·27
19	143	—22 46	3·34	—0·29	64	403	—22 47	5·10	—0·21	64	422	—22 41	6·73	—0·11
12	88	—26 44	2·78	—0·60	30	188	—27 16	5·12	—0·27	13	85	—26 7	6·68	+0·25
6	42	—32 43	2·93	+0·70	15	84	—32 50	5·03	+0·90	6	34	—33 4	6·75	—1·08

EYE AND EAR OBSERVATIONS.

Limits of Magnitude.	0·0 to 4·2.		4·3 to 5·2.		5·3 to 6·2.		6·3 to 7·0.	
Observer.	Mean Mag.	Result.	Mean Mag.	Result.	Mean Mag.	Result.	Mean Mag.	Result.
	m	s	m	s	m	s	m	s
Maclear	3·24	— 0·063	4·74	— 0·014	5·86	+ 0·027	6·64	— 0·010
Pett	3·31	— 0·019	4·75	— 0·026	5·89	— 0·037	6·62	— 0·043
Cox	3·10	— 0·009	4·84	— 0·022	5·89	— 0·001	6·60	— 0·036
CHRONOGRAPHIC OBSERVATIONS.								
Maclear	3·13	— 0·039	4·77	— 0·028	5·87	— 0·030	6·63	— 0·032
Pett	3·33	— 0·021	4·81	— 0·032	5·90	— 0·023	6·62	— 0·033
Cox	3·09	— 0·016	4·83	— 0·013	5·88	— 0·015	6·60	— 0·001
Pead	3·32	— 0·028	4·80	— 0·025	5·86	— 0·030	6·62	— 0·030
Woodgate	3·17	— 0·041	4·86	— 0·023	5·85	— 0·050	6·61	— 0·031
Mean		— 0·030		— 0·023		— 0·020		— 0·027

No determinations of personal equation depending on magnitude have been made by Messrs. Power and Cochrane.

These mean results may be taken to represent the corrections applicable, on account of personality depending on magnitude, to the catalogue.

They have not been applied to the Catalogue places, but there is no doubt that a correction of

$$-\frac{0^s\cdot025}{1\cdot8} \times (M - 4\cdot0)$$

$$= -0^s\cdot0139 \times (M - 4\cdot0)$$

(where M is the magnitude of any star)

is the nearest approach to the true correction depending on Magnitude which can be applied to the Right Ascensions of the Catalogue.

Magnitude	0·0	Correction	+ 0ˢ·056
,,	1·0	,,	+ 0·042
,,	2·0	,,	+ 0·028
,,	3·0	,,	+ 0·014
,,	4·0	,,	0·000
,,	5·0	,,	— 0·014
,,	6·0	,,	— 0·028
,,	7·0	,,	— 0·042
,,	8·0	,,	— 0·056
,,	9·0	,,	— 0·070

In all future fundamental work at the Cape the personal error depending on magnitude will be frequently determined for each observer and the corresponding corrections applied to his observations.

Observers, &c.

The observers who have taken part in the observations on which the Catalogue is based are :—

Mr. G. W. H. Maclear,	denoted	in	the Annual Results	by M.
,, R. T. Pett	,,	,,	,,	P.
,, W. H. Cox	,,	,,	,,	C.
,, J. Power	,,	,,	,,	J.P.
,, J. Pead	,,	,,	,,	A.P.
,, R. Woodgate	,,	,,	,,	W.
,, A. Cochrane	,,	,,	,,	A.C.

The reductions of the Right Ascensions have been made under the charge of Messrs. G. W. H. Maclear and Pett, those of the Declinations under Mr. Cox.

To Mr. J. Power I am specially indebted for his large personal share in the construction of the Catalogue and for his careful revision of the references and the nomenclature.

As the stars *Sirius* and *Procyon* have orbital motions due to companions of sensible mass, the results of the separate observations of these stars, reduced without proper motion to 1890·0, are given in Appendix II. For continuation of researches on the relative masses of the components of α Centauri, the results of the separate observations of α and β Centauri similarly reduced to 1890, are also given in Appendix II.

Appendix III. contains a discussion of the places of 24 Southern Circumpolar Stars, and their resulting Mean Places from 1875 to 1920. An account of the work is prefixed to this Appendix.

DAVID GILL.

Royal Observatory, Cape of Good Hope,
1898 December 9.

SYSTEMATIC CORRECTIONS WHICH SHOULD BE APPLIED TO THE CAPE CATALOGUE FOR 1890·0.

Corrections applicable to the Right Ascensions.

Argument, "Star's Magnitude."

			s
Magnitude	0·0	Correction	+ 0·056
"	1·0	"	+ 0·042
"	2·0	"	+ 0·028
"	3·0	"	+ 0·014
"	4·0	"	0·000
"	5·0	"	— 0·014
"	6·0	"	— 0·028
"	7·0	"	— 0·042
"	8·0	"	— 0·056
"	9·0	"	— 0·070

Declinations.

The seconds of Declination should be taken from the column marked "Sec. of Final Dec."

CATALOGUE OF STARS

FOR

1890·0,

FROM OBSERVATIONS MADE AT THE

ROYAL OBSERVATORY, CAPE OF GOOD HOPE,

1885—1895.

A 19440—750—6/97 Wt 5296. CAPE CATALOGUE, 1890.

No.	Bradley or Lacaille.	Piazzi. 1800.	B.A.C. 1850.	O.G.A. 1875.	Star's Name.	Mag.	Mean Date. 1800+	No. of Obs.	Mean R.A. 1890·0.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_a.	Corr. for μ_a to 1890·0.
									h m s	s	s	s	s
1	3209	274	8370	...	86 Pegasi	5·8	87·86	9	0 0 3·094	+3·0725	+ 0·009	+0·0011	+ 0·002
2	...	...	...	...	Lalande 47250	6·8†	92·64	6	0 0 23·565	+3·0736	+ 0·015	...	...
3	9721	...	...	32446	Lacaille 9721	5·6	94·28	6	0 0 37·379	+3·0683	— 0·033	...	...
4	9729	...	...	15	Lacaille 9729	6·9*	87·53	6	0 1 44·169	+3·0676	— 0·013	...	...
5	9735	279	2	30	Lacaille 9735	5·6	94·79	12	0 2 27·981	+3·0627	— 0·018	...	...
6	9734	...	...	35	Lacaille 9734	7½*	...	...	0 2 40	+2·9911	— 0·146	...	...
7	3215	281	4	...	21 Andromedæ *a*	2·1	88·00	8	0 2 42·044	+3·0810	+ 0·018	+0·0095	+ 0·019
8	9745	...	...	38	Lacaille 9745	7·4	90·27	33	0 2 48·473	+2·7918	— 0·415	...	...
9	...	...	...	40	Lalande 47332	6·4	89·52	6	0 2 56·462	+3·0669	— 0·008	...	...
10	...	282	5	41	Piazzi XXIII. 282	7·4	93·83	3	0 3 4·950	+3·0716	+ 0·001	—0·0004†	+ 0·002
11	...	...	...	...	Lalande 47348 *pr.*	7·0†	87·89	1	0 3 20·839	+3·0892	+ 0·028	...	...
12	3218	284	8	...	87 Pegasi	5·7	90·03	6	0 3 21·943	+3·0787	+ 0·012	+0·0084	0·000
13†	9742	...	11	57	Phœnicis ε	3·9	88·45	12	0 3 49·598	+3·0491	— 0·028	+0·0098	+ 0·015
14	3220	288	16	...	22 Andromedæ	4·9	...	...	0 4 36	+3·0998	+ 0·033	+0·0015	...
15	9756	...	19	78	Octantis γ^3	5·3	86·63	9	0 5 2·201	+2·8390	— 0·199	—0·014*	— 0·047
16†	9758	6	23	91	Sculptoris κ^2	5·5	90·22	12	0 5 59·206	+3·0536	— 0·014	+0·0020	0·000
17†	9760	7	24	95	Sculptoris θ	5·1	90·23	12	0 6 8·420	+3·0467	— 0·018	+0·0094	— 0·002
18	1	9	26	...	88 Pegasi γ	3·0	88·41	32	0 7 34·249	+3·0840	+ 0·010	—0·0007	— 0·001
19	11	...	30	127	Lacaille 11	7½*	87·98	8	0 8 24·538	+2·9953	— 0·042	...	...
20	23	...	40	147	Lacaille 23	5·8	94·31	23	0 9 7·807	+2·3792	— 0·210	0·000*	0·000
21	...	...	35	146	Lalande 183	5·4	93·10	6	0 9 17·605	+3·0628	— 0·003	...	...
22	18	20	37	149	Lacaille 18	6·4*	87·19	6	0 9 24·951	+3·0333	— 0·018	...	...
23	...	19	...	...	Piazzi 0. 19	5·9	93·78	7	0 9 28·338	+3·1002	+ 0·018	...	...
24	...	...	...	...	Lalande 209	6·0	...	...	0 10 35	+3·1300	+ 0·031	...	...
25	22	23	43	167	Lacaille 22	5·5	95·88	2	0 10 35·062	+3·0339	— 0·015	...	...
26	29	...	...	182	Lacaille 29	6·7	94·62	10	0 11 6·990	+2·6867	— 0·131	..	...
27	31	...	...	187	Lacaille 31	7*	87·60	8	0 11 23·917	+2·9834	— 0·035	...	...
28	12	35	58	...	25 Andromedæ σ	4·7	88·83	3	0 12 34·789	+3·1261	+ 0·025	—0·0051	— 0·006
29	260	...	71	222	Octantis o	7·2	92·33	42	0 12 38·782	—1·0480	+ 2·808	+0·006†	— 0·014
30*	14	42	62	223	8 Ceti *t*	3·6	87·88	26	0 13 49·384	+3·0591	— 0·002	—0·0032	— 0·007
31†	40	...	64	233	Toucani ζ	4·3	87·77	13	0 14 19·445	+2·8891	— 0·055	+0·2694	+ 0·601
32	17	46	67	...	27 Andromedæ ρ	5·3	91·81	1	0 15 19·640	+3·1407	+ 0·026	+0·0038	— 0·007
33	52	48	...	258	Lacaille 52	7½*	88·08	9	0 15 45·248	+3·0048	— 0·018	...	...
34	54	50	72	263	Sculptoris *t*	5·5	86·84	5	0 15 59·451	+3·0196	— 0·014	...	...
35	65	57	77	296	Lacaille 65	6·6*	87·19	6	0 17 42·221	+3·0089	— 0·014	...	...

16. B.A.C. gives no letter.

No.	Mean Date. 1800+	No. of Obs.	Mean Dec. 1890·0.	Sec. of Final Dec.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_δ.	Corr. for μ_δ to 1890·0.	Fallows and Henderson.	Johnson.	Cape Catalogues. 1840.	1850.	1860.	1880.	1885.	Melbourne, 1870 and 1880.
			° ′ ″	″	″	″	″	″								
1	87·86	9	+ 12 47 2·79	2·46	+ 20·053	— 0·01	+ 0·003	+0·01	...	...	...	...	...	...	...	...
2	92·64	6	+ 24 18 16·57	16·33	+ 20·053	— 0·01	...	...	...	...	...	...	...	...	...	...
3	94·28	6	— 49 41 11·33	11·46	+ 20·053	— 0·01	...	...	...	...	...	...	...	1	...	...
4	87·53	6	— 25 57 53·22	53·40	+ 20·052	— 0·01	...	...	...	...	...	...	...	8	...	...
5	94·79	12	— 34 8 30·38	30·59	+ 20·052	— 0·01	...	...	...	...	2892	2	...	15	...	*4*
6	85·81	2	— 79 12 41·00	40·83	+ 20·052	— 0·01	...	...	...	...	...	...	...	18	...	...
7	88·00	8	+ 28 28 59·34	58·95	+ 20·052	— 0·01	— 0·156	—0·31	*159*	...	1	4	1	19	7	3*
8	89·46	44	— 86 39 5·34	5·33	+ 20·051	— 0·01	...	...	...	...	...	...	...	20	8	...
9	89·52	6	— 18 11 20·47	20·67	+ 20·051	— 0·01	...	...	...	...	...	...	...	...	...	...
10*	93·83	3	— 2 50 6·18	6·35	+ 20·051	— 0·02	— 0·014†	+0·05	1	...	...	5	...	...	...	...
11†	93·32	7	+ 40 14 8·62	8·03	+ 20·051	— 0·02	...	...	...	...	...	...	...	...	...	...
12	90·03	6	+ 17 36 1·28	0·99	+ 20·051	— 0·02	— 0·022	0·00	...	...	...	...	...	...	...	...
13	88·45	12	— 46 21 15·42	15·43	+ 20·050	— 0·02	— 0·210	—0·33	2	1	4	8	2	27	13	4
14	93·17	9	+ 45 27 37·34	36·63	+ 20·049	— 0·02	— 0·016	+0·05	...	...	...	...	...	...	...	...
15	87·24	18	— 82 50 8·05	8·08	+ 20·048	— 0·02	— 0·05*	—0·14	*8*	2	5	12	3	37	19	7*
16*	90·27	13	— 28 24 44·97	45·09	+ 20·046	— 0·02	+ 0·009	0·00	...	...	...	15	...	43	25	...
17	90·23	12	— 35 44 55·99	56·15	+ 20·046	— 0·02	+ 0·118	—0·03	...	...	...	16	...	45	...	8
18	88·64	47	+ 14 34 19·04	18·74	+ 20·042	— 0·02	— 0·013	—0·02	*144*	...	7	18	4	56	28	9*
19	87·98	8	— 57 36 46·41	46·55	+ 20·040	— 0·03	...	...	...	...	...	20	...	65	...	...
20	94·35	25	— 85 36 22·63	22·65	+ 20·037	— 0·02	0·00*	0·00	...	...	...	...	...	72	...	*12*
21	93·10	6	— 10 10 52·07	52·19	+ 20·036	— 0·03	...	...	...	...	...	24	5	73	...	...
22	87·19	6	— 35 30 55·94	56·07	+ 20·036	— 0·03	...	...	...	...	...	25	...	75	...	...
23	93·78	7	+ 26 40 20·19	19·75	+ 20·036	— 0·03	...	...	...	...	...	...	...	...	...	...
24	93·45	5	+ 42 59 4·18	3·54	+ 20·032	— 0·03	...	...	...	...	...	...	...	...	...	...
25	95·88	3	— 32 3 26·05	26·29	+ 20·031	— 0·03	...	...	...	...	11	28	...	79	...	...
26	94·62	12	— 80 27 39·86	39·95	+ 20·029	— 0·03	...	...	...	...	...	...	...	84	...	...
27	87·60	8	— 53 16 6·14	6·25	+ 20·028	— 0·03	...	...	...	...	...	...	...	91	...	...
28	91·69	9	+ 36 10 31·62	31·12	+ 20·023	— 0·03	— 0·047	+0·08	...	...	...	...	...	...	...	...
29*	91·58	83	— 88 58 28·71	28·65	+ 20·022	0·00	+ 0·001†	0·00	*2*	5	17	39	9	100	44	18*
30	87·64	33	— 9 26 0·97	1·22	+ 20·016	— 0·04	— 0·032	—0·08	3	3	...	35	...	101	49	*18*
31	87·77	13	— 65 31 19·00	19·06	+ 20·014	— 0·03	+ 1·142	+2·55	...	4	14	36	7	107	50	19
32	93·72	6	+ 37 21 33·52	33·03	+ 20·008	— 0·04	— 0·024	+0·09	...	...	...	...	...	...	...	...
33	88·08	9	— 36 24 29·34	29·52	+ 20·006	— 0·04	...	...	...	...	...	...	...	117	...	...
34	86·85	6	— 29 35 22·90	23·00	+ 20·004	— 0·04	...	...	...	...	16	40	...	118	58	...
35	87·19	6	— 31 38 45·64	45·78	+ 19·993	— 0·04	...	...	...	...	...	44	...	130	...	*21*

10. Proper Motion from Newcomb's *Catalogue of* 1098 *Standard Stars*.
29. Proper Motion determined for this catalogue.

11. $7^{m}\cdot0$, $11^{m}\cdot5$ $3''\cdot0$ $44°$ 1891·70. Brighter star observed.

No.	Bradley or Lacaille.	Piazzi. 1800.	B.A.C. 1850.	C.G.A. 1875.	Star's Name.	Mag.	Mean Date. 1800+	No. of Obs.	Mean R.A. 1890·0.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_α.	Corr. for μ_α to 1890·0.
									h m s	s	s	s	s
36	...	...	...	...	B.D. — 1° No. 42	9·2†	93·83	4	0 18 15·880	+ 3·0709	+ 0·002	...	...
37	25	64	87	...	44 Piscium	5·8	87·47	11	0 19 45·852	+ 3·0752	+ 0·004	— 0·0028	— 0·007
38†	74	...	88	336	Hydri .....β	2·9	86·43	16	0 19 55·282	+ 2·5326	— 0·086	+ 0·6988	+ 2·495
39	...	...	...	...	B.D. — 1° No. 44	9·5†	93·84	3	0 20 6·670	+ 3·0697	+ 0·002	...	...
40	84	...	...	346	Lacaille 84	7¼*	87·87	11	0 20 26·972	+ 2·9999	— 0·014	...	...
41	89	68	93	351	Phœnicis .....κ	4·0	89·37	12	0 20 47·499	+ 2·9544	— 0·024	...	...
42†	87	69	94	355	Phœnicis .....α	2·5	90·27	11	0 20 50·746	+ 2·9597	— 0·022	+ 0·0170	— 0·005
43	...	...	...	...	Lalande 549.....	7·2†	94·27	6	0 20 52·318	+ 3·1532	+ 0·024	...	...
44	90	...	...	363	Lacaille 90	6·5*	91·28	7	0 21 43·920	+ 3·0103	— 0·011	...	...
45	96	...	...	381	Lacaille 96	6·8	86·79	6	0 22 45·591	+ 2·9971	— 0·013	...	...
46*	38	89	112	415	12 Ceti	6·2	88·87	38	0 24 25·508	+ 3·0611	+ 0·001	— 0·0003	0·000
47*	106	91	115	419	Piazzi 0. 91	5·2	87·84	9	0 24 52·649	+ 3·0068	— 0·010	— 0·0039	— 0·008
48	109	94	117	425	Lacaille 109.....	6·5*	87·15	7	0 25 5·338	+ 2·9431	— 0·020	...	...
49	...	...	120	...	Lalande 717.....	6·2	91·53	7	0 25 35·164	+ 3·1691	+ 0·024	...	...
50†	115	...	124	443	Phœnicis .....λ¹	4·8	90·25	12	0 26 6·487	+ 2·8952	— 0·027	+ 0·0088	— 0·002
51	119	...	127	451	Toucani.....β¹	4·5	89·42	7	0 26 29·991	+ 2·7624	— 0·044	...	...
52	120	...	128	452	Toucani.....β²	4·3	89·65	6	0 26 30·606	+ 2·7619	— 0·044	...	...
53	123	...	134	467	Lacaille 123.....	5·1	95·79	3	0 27 42·856	+ 2·7471	— 0·044	...	...
54	124	...	...	474	Lacaille 124	6·8*	86·97	6	0 28 9·356	+ 2·9412	— 0·018	...	...
55†	125	109	135	476	Lacaille 125.....	5·6	89·42	11	0 28 14·552	+ 2·9770	— 0·013	— 0·0060	— 0·003
56†	137	...	143	501	Lacaille 137.....	5·4	90·97	12	0 29 13·679	+ 2·8470	— 0·030	+ 0·020	— 0·019
57	50	117	145	505	13 Ceti	5·3	88·46	13	0 29 35·162	+ 3·0599	+ 0·002	+ 0·0265	+ 0·041
58	...	...	...	...	Lalande 882.....	7·8†	89·19	6	0 30 2·013	+ 3·1401	+ 0·015	...	...
59	53	125	155	...	29 Andromedæ .....π	4·4	91·00	12	0 31 0·389	+ 3·1901	+ 0·024	— 0·0004	0·000
60	...	...	...	...	Lalande 943.....	7·3‡	89·79	49	0 31 35·180	+ 3·1076	+ 0·009	0·	0·000
61†	147	130	160	544	Lacaille 147(as one mass)	5·6	87·27	11	0 31 41·389	+ 2·9851	— 0·009	+ 0·1002	+ 0·274
62	154	...	...	553	Lacaille 154.....	8·1	90·97	7	0 31 56·910	+ 2·5611	— 0·051	...	...
63	...	...	...	...	Lalande 967.....	7·5†	89·46	5	0 32 21·410	+ 3·0796	+ 0·005	...	...
64	56	134	164	...	30 Andromedæ .....ε	4·6	90·38	10	0 32 44·511	+ 3·1768	+ 0·021	— 0·0184	+ 0·007
65	57	136	166	...	31 Andromedæ .....δ	3·4	90·42	12	0 33 26·721	+ 3·1859	+ 0·022	+ 0·0100	— 0·004
66	166	...	171	602	Lacaille 166.....	6·4*	89·11	18	0 34 37·258	+ 2·8685	— 0·022	— 0·002*	— 0·002
67†	177	...	183	626	Phœnicis .....μ	4·6	87·70	12	0 36 7·605	+ 2·8499	— 0·023	— 0·0060	— 0·014
68	228	...	...	639	Lacaille 228.....	8·0	95·55	12	0 36 28·143	+ 0·1488	+ 0·372	...	...
69	...	...	...	...	Gilliss P.Z. 382	8·5‡	91·45	2	0 36 52·634	— 1·4875	+ 1·241	...	...
70	...	...	...	...	Lalande 1125	7·3‡	89·79	49	0 37 7·440	+ 3·1346	+ 0·013	— 0·0048	— 0·001

47. Fundamental star for Southern Zones. The name given in *Ast. Nach.* 2890 is retained.

No.	Mean Date. 1800+	No. of Obs.	Mean Dec. 1890·0.	Sec. of Final Dec.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_δ.	Corr. for μ_δ to 1890·0.	Fallows and Henderson	Johnson.	Cape Catalogues. 1840.	1850.	1860.	1880.	1885.	Melbourne, 1870 and 1880.
			° ′ ″	″	″	″	″	″								
36	93·83	3	— 0 52 10·87	11·04	+ 19·989	— 0·04	...	...	...	...	...	...	...	...	...	...
37	87·45	13	+ 1 19 50·35	50·10	+ 19·978	— 0·05	— 0·011	—0·03	...	...	20	...	...	...	66	23
38	86·90	21	— 77 52 26·22	26·30	+ 19·977	— 0·04	+ 0·306	+0·95	5*	6	21	47	11	146	68	24*
39	93·84	3	— 1 21 34·33	34·50	+ 19·976	— 0·05	...	...	...	...	...	...	...	...	...	...
40	87·87	11	— 31 21 27·29	27·47	+ 19·973	— 0·05	...	...	...	...	...	...	...	151	...	...
41	89·18	13	— 44 17 24·84	24·88	+ 19·970	— 0·05	...	...	...	7	22	48	...	153	70	26
42	90·89	9	— 42 54 12·34	12·50	+ 19·970	— 0·05	— 0·408	+0·36	6*	8	23	49	13	155	71	27
43	94·27	6	+ 33 34 29·61	29·13	+ 19·970	— 0·05	...	...	...	...	...	...	...	...	...	...
44	91·22	8	— 26 9 20·74	20·88	+ 19·963	— 0·05	...	...	...	...	...	...	...	158	...	...
45	86·79	6	— 29 38 53·62	53·76	+ 19·954	— 0·05	...	...	...	...	...	...	...	164	...	...
46	89·11	106	— 4 33 54·44	54·64	+ 19·939	— 0·06	— 0·009	—0·01	7	...	...	59	14	178	76	32*
47*	87·84	9	— 24 23 46·58	46·79	+ 19·935	— 0·06	+ 0·026	+0·06	...	...	26	60	...	179	77	28
48	87·04	6	— 41 32 53·53	53·61	+ 19·933	— 0·06	...	...	...	...	27	62	...	181	...	...
49	91·53	7	+ 32 58 27·11	26·77	+ 19·928	— 0·06	...	...	...	...	...	...	...	...	...	...
50	90·25	12	— 49 24 42·81	42·91	+ 19·923	— 0·06	+ 0·005	0·00	8	9	...	64	...	187	...	34
51	89·42	7	— 63 33 51·30	51·35	+ 19·919	— 0·06	...	...	9	10	29	65	15	190	79	35
52	89·65	6	— 63 34 18·22	18·28	+ 19·919	— 0·06	...	...	...	11	30	66	...	191	80	36
53	95·79	3	— 63 38 14·99	15·11	+ 19·906	— 0·06	...	...	...	12	31	68	16	194	...	...
54	86·97	6	— 38 43 11·86	11·98	+ 19·902	— 0·06	...	...	...	...	...	...	...	196	...	...
55	89·20	12	— 30 9 52·14	52·19	+ 19·901	— 0·06	— 0·039	—0·03	...	...	32	69	...	197	...	...
56	90·97	12	— 52 58 51·45	51·50	+ 19·890	— 0·06	+ 0·01	—0·01	...	...	37	74	17	211	...	...
57	88·46	13	— 4 11 54·32	54·56	+ 19·886	— 0·07	— 0·021	—0·03	...	...	38	76	18	213	81	...
58	89·19	6	+ 21 10 3·31	2·96	+ 19·881	— 0·07	...	...	...	...	...	...	...	...	...	...
59	91·00	12	+ 33 6 48·74	48·36	+ 19·870	— 0·07	0·000	0·00	...	...	...	...	...	...	82	...
60*	89·79	49	+ 10 49 52·14	51·89	+ 19·863	— 0·07	0·	0·00	...	...	...	...	...	...	...	...
61†	87·25	12	— 25 22 20·75	20·97	+ 19·862	— 0·07	— 0·007	—0·02	...	...	43	81	...	225	...	...
62	90·97	7	— 70 2 19·34	19·36	+ 19·858	— 0·06	...	...	...	...	...	...	...	229	...	...
63	89·20	6	+ 2 9 30·70	30·49	+ 19·854	— 0·07	...	...	...	...	...	...	...	...	...	...
64	90·06	11	+ 28 42 52·42	52·15	+ 19·849	— 0·08	— 0·251	+0·02	...	...	...	...	...	233	84	...
65	90·42	12	+ 30 15 32·07	31·76	+ 19·840	— 0·08	— 0·080	+0·03	...	...	...	...	...	...	85	...
66	89·11	18	— 45 24 4·93	5·02	+ 19·825	— 0·07	— 0·05*	—0·05	...	...	46	84	...	247	...	36
67	87·70	12	— 46 41 20·11	20·23	+ 19·804	— 0·07	— 0·030	—0·07	...	13	...	90	21	258	88	46
68	95·55	12	— 85 51 22·04	22·04	+ 19·799	— 0·01	...	...	...	...	...	...	...	264	...	...
69*	91·45	2	— 87 18 38·88	38·86	+ 19·794	+ 0·03	...	...	...	...	...	...	...	...	...	...
70*	89·79	49	+ 16 3 42·86	42·59	+ 19·791	— 0·08	— 0·093	—0·02	...	...	...	...	...	...	...	...

60, 70. Magnitude and Proper Motion from *Cape Annals*, Vol. VII.
69. Magnitude from Cape observations.

61. Very close binary; $6^m{\cdot}3$, $6^m{\cdot}4$. Observed as one mass.

No.	Bradley or Lacaille.	Piazzi. 1800.	B.A.C. 1850.	C.G.A. 1875.	Star's Name.	Mag.	Mean Date. 1800+	No. of Obs.	Mean R.A. 1890·0.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_α.	Corr. for μ_α to 1890·0.
									h m s	s	s	s	s
71	...	157	191	644	Piazzi 0. 157	7·0	95·90	3	0 37 25·200	+ 3·0556	+ 0·002	+ 0·004	— 0·024
72	188	...	195	653	Toucani .....ρ	5·4	89·72	13	0 37 46·095	+ 2·5782	— 0·041	...	...
73*	70	159	196	657	16 Ceti .....β	2·1	87·20	41	0 38 4·020	+ 2·9982	— 0·005	+ 0·0147	+ 0·041
74†	190	...	199	662	Phœnicis .....η	4·5	92·04	13	0 38 24·536	+ 2·7146	— 0·032	— 0·0022	+ 0·004
75	69	160	198	...	22 Cassiopeiæ .....o	4·6	...	...	0 38 36	+ 3·3186	+ 0·041	— 0·0003	....
76	242	...	...	678	Lacaille 242.....	7·7	95·59	12	0 38 44·641	— 0·1563	+ 0·471	...	...
77†	192	164	202	666	Sculptoris.....λ²	5·8	91·23	11	0 38 52·976	+ 2·8895	— 0·017	+ 0·0139	— 0·017
78†	193	166	203	669	Lacaille 193.....	5·2	92·08	9	0 39 17·770	+ 2·9775	— 0·007	— 0·0061	+ 0·013
79	248	...	...	700	Lacaille 248.....	6·8	91·96	20	0 39 45·838	— 0·5005	+ 0·607	...	...
80	78	182	215	...	34 Andromedæ .....ζ	4·4	89·40	10	0 41 30·476	+ 3·1780	+ 0·018	— 0·0091	— 0·005
81	...	...	...	...	W.B. 0. 704	7·7‡	89·74	8	0 42 28·400	+ 3·1099	+ 0·009	0·	0·000
82	...	...	...	...	W.B. 0. 707	9·0‡	89·74	5	0 42 34·150	+ 3·1145	+ 0·009	0·	0·000
83	218	...	...	731	Lacaille 218	5·5	89·96	13	0 42 34·440	+ 2·9711	— 0·007	...	...
84	...	189	221	...	Piazzi 0. 189.....	5·7	92·59	12	0 42 36·921	+ 3·0929	+ 0·006	+ 0·051	— 0·132
85	85	192	222	...	63 Piscium .....δ	4·6	88·50	16	0 42 58·502	+ 3·1030	+ 0·008	+ 0·0035	+ 0·005
86	227	...	...	742	Lacaille 227.....	7½*	88·88	3	0 43 44·750	+ 2·8823	— 0·015	...	...
87	87	194	227	...	35 Andromedæ .....ν	4·4	88·00	1	0 43 45·029	+ 3·2890	+ 0·033	— 0·0009	— 0·002
88	...	...	...	...	W.B. 0. 734	8·6‡	89·79	8	0 44 27·520	+ 3·1237	+ 0·010	+ 0·0013	0·000
89*	89	201	233	757	19 Ceti	5·3	87·38	4	0 44 37·095	+ 3·0211	— 0·001	— 0·0178	— 0·047
90†	235	...	236	762	Hydri .....λ	5·0	86·50	10	0 44 46·208	+ 2·0676	— 0·035	+ 0·0260	+ 0·091
91	...	...	...	...	Lalande 1378	8·5‡	89·83	10	0 44 49·850	+ 3·1174	+ 0·010	0·	0·000
92	...	...	...	...	B.D. + 31° No. 129 ...	7·1†	92·18	6	0 45 28·137	+ 3·2375	+ 0·024	...	...
93	233	...	238	769	Phœnicis .....ρ	5·0	87·61	4	0 45 40·481	+ 2·7387	— 0·024	...	...
94	293	...	...	782	Lacaille 293.....	8·2	95·60	13	0 45 45·175	— 1·2521	+ 0·873	...	...
95	...	208	...	...	Piazzi 0. 208	7·0‡	89·84	14	0 45 49·300	+ 3·1298	+ 0·011	+ 0·0048	+ 0·001
96	...	...	...	...	Lalande 1432 (as one mass)	8·3‡	89·70	2	0 46 23·550	+ 3·1199	+ 0·010	+ 0·0032	+ 0·001
97	...	...	...	...	Lalande 1447	7·3‡	89·72	4	0 46 43·220	+ 3·1352	+ 0·012	— 0·0008	0·000
98	...	...	...	...	Lalande 1459	8·3‡	89·73	4	0 47 3·850	+ 3·1167	+ 0·009	— 0·0014	0·000
99	238	...	...	791	Lacaille 238.....	5·7	87·59	7	0 47 16·581	+ 2·9471	— 0·008	...	...
100	93	213	242	792	20 Ceti	5·0	90·40	12	0 47 23·178	+ 3·0642	+ 0·003	— 0·0022	+ 0·001
101	...	...	...	...	Lalande 1497	8·4‡	89·79	10	0 48 6·130	+ 3·1242	+ 0·010	— 0·0021	0·000
102	253	...	251	825	Lacaille 253.....	5·6	95·53	3	0 49 3·054	+ 2·5038	— 0·032	...	...
103	97	223	250	...	36 Andromedæ(as one mass)	5·4	87·88	11	0 49 4·669	+ 3·1933	+ 0·018	+ 0·0090	+ 0·019
104	...	...	...	...	W.B. 0. 810	8·2‡	89·76	4	0 49 15·110	+ 3·1344	+ 0·011	+ 0·0015	0·000
105	...	230	257	840	Piazzi 0. 230.....	6·0	86·82	6	0 50 8·910	+ 3·0320	+ 0·001	...	...

89. φ^2 Ceti in B.A.C.

102. λ^1 Toucani in B.A.C.

No.	Mean Date. 1800+	No. of Obs.	Mean Dec. 1890·0.	Sec. of Final Dec.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion, μ_δ.	Corr. for μ_δ to 1890·0.	Fallows and Henderson.	Johnson.	Cape Catalogues. 1840.	1850.	1860.	1880.	1885.	Melbourne, 1870 and 1880.
			° ′ ″	″	″	″	″	″								
71	95·90	3	− 4 27 33·26	33·57	+ 19·785	− 0·08	0·00	0·00	...	...	...	95	...	270	...	...
72	89·87	15	− 66 4 21·25	21·25	+ 19·781	− 0·07	...	...	...	...	54	98	...	275	...	...
73	87·84	38	− 18 35 25·82	26·02	+ 19·777	− 0·08	+ 0·034	+0·07	13*	14	53	99	22	277	90	50*
74	92·04	13	− 58 3 59·05	59·12	+ 19·772	− 0·07	− 0·010	+0·02	...	16	55	100	...	280	...	51
75	93·50	6	+ 47 40 57·95	56·95	+ 19·769	− 0·09	− 0·016	+0·06	...	...	...	...	...	...	...	...
76	95·59	12	− 86 0 55·20	55·22	+ 19·766	− 0·01	...	...	...	...	...	...	...	287	...	...
77	91·23	11	− 39 1 39·83	40·04	+ 19·765	− 0·08	+ 0·119	−0·15	...	...	...	102	...	283	...	...
78	91·56	10	− 22 36 39·09	39·27	+ 19·759	− 0·08	+ 0·087	−0·14	...	...	56	103	...	286	...	...
79	90·28	37	− 86 18 14·48	14·55	+ 19·752	0·00	...	...	...	...	...	...	...	300	92	...
80	89·40	10	+ 23 40 7·97	7·73	+ 19·725	− 0·09	− 0·072	−0·04	...	...	...	...	...	...	93	...
81*	89·74	8	+ 8 37 17·19	17·02	+ 19·710	− 0·09	0·	0·00	...	...	...	...	...	...	...	...
82*	89·74	5	+ 9 39 30·93	30·76	+ 19·708	− 0·09	− 0·088	−0·02	...	...	...	...	...	...	...	...
83	89·96	13	− 22 19 22·20	22·36	+ 19·708	− 0·09	...	...	...	...	...	...	...	315	...	...
84	92·59	12	+ 4 42 50·76	50·47	+ 19·707	− 0·09	− 1·14	+2·95	...	...	59	...	...	317	...	55*
85	88·29	21	+ 6 59 11·03	10·77	+ 19·701	− 0·09	− 0·037	−0·06	14	...	60	111	23	318	96	*43*
86	88·64	4	− 36 51 50·15	50·39	+ 19·688	− 0·09	...	...	...	...	...	...	...	321	...	...
87	92·00	8	+ 40 28 47·53	46·95	+ 19·688	− 0·10	− 0·010	+0·02	...	...	61	...	...	...	...	...
88*	89·79	8	+ 11 13 55·37	55·13	+ 19·677	− 0·10	− 0·055	−0·01	...	...	...	...	...	...	...	...
89*	87·38	4	− 11 14 11·43	11·63	+ 19·674	− 0·09	− 0·225	−0·59	...	...	...	114	...	328	97	*44*
90	86·50	13	− 75 31 20·53	20·57	+ 19·672	− 0·07	− 0·002	−0·01	...	...	64	116	...	330	98	58
91*	89·83	10	+ 9 48 44·51	44·23	+ 19·670	− 0·10	0·	0·00	...	...	...	...	...	...	...	...
92	92·18	6	+ 32 3 38·81	38·50	+ 19·660	− 0·10	...	...	...	...	...	...	...	...	...	...
93	87·61	4	− 51 35 14·36	14·46	+ 19·656	− 0·09	...	...	...	...	65	117	...	335	...	*46*
94	95·60	13	− 86 29 32·15	32·19	+ 19·654	+ 0·03	...	...	...	...	...	...	...	337	...	*47*
95*	89·83	15	+ 12 11 12·05	11·76	+ 19·654	− 0·10	0·	0·00	...	...	...	...	...	...	...	...
96†	89·70	2	+ 10 0 12·78	12·64	+ 19·643	− 0·10	− 0·042	−0·01	...	...	...	...	...	...	...	...
97*	89·72	4	+ 13 3 3·35	3·18	+ 19·638	− 0·10	− 0·028	−0·01	...	...	...	...	...	...	...	...
98†	89·73	4	+ 9 12 25·05	24·89	+ 19·632	− 0·10	− 0·045	−0·01	...	...	...	...	...	...	...	...
99	87·59	7	− 24 36 17·83	18·01	+ 19·628	− 0·10	...	...	...	...	...	...	...	342	...	...
100	90·47	14	− 1 44 30·12	30·35	+ 19·626	− 0·10	− 0·009	0·00	15	17	66	119	24	343	99	...
101*	89·79	10	+ 10 31 32·02	31·79	+ 19·613	− 0·10	− 0·062	−0·01	...	...	...	...	...	...	...	...
102*	95·53	3	− 63 28 7·62	7·67	+ 19·595	− 0·09	...	...	...	...	70	123	...	354	...	...
103†	87·88	11	+ 23 1 57·52	57·15	+ 19·595	− 0·11	− 0·030	−0·06	...	...	...	...	...	...	...	...
104*	89·76	4	+ 12 15 4·38	4·17	+ 19·592	− 0·10	− 0·055	−0·01	...	...	...	...	...	...	...	...
105	86·82	6	− 7 56 33·26	33·44	+ 19·575	− 0·11	...	...	...	...	...	124	...	360	...	...

81, 82, 88, 91, 95, 96, 97, 98, 101, 104. Magnitude and Proper Motion from *Cape Annals*, Vol. VII.
96. $8^m{\cdot}5$, $9^m{\cdot}3$ 1″·9 7° 1867·22. 1″·6 13° 1830·91. Observed as one mass. 98. $8^m{\cdot}3$, $12^m{\cdot}3$ 2″·7 155°. Fainter star probably not seen.
103. Close binary; $5^m{\cdot}9$, $6^m{\cdot}5$. Observed as one mass.

No.	Bradley or Lacaille.	Piazzi. 1800.	B.A.C. 1850.	C.G.A. 1875.	Star's Name.	Mag.	Mean Date. 1800+	No. of Obs.	Mean R.A. 1890·0.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_α.	Corr. for μ_α to 1890·0.
									h m s	s	s	s	s
106	255	...	...	844	Lacaille 255	6·8*	87·78	11	0 50 11·522	+ 2·7500	— 0·021	...	...
107	...	231	258	...	Piazzi 0. 231	6·5‡	89·78	6	0 50 22·860	+ 3·1417	+ 0·012	0·	0·000
108	101	232	259	...	37 Andromedæ ....μ	3·9	87·00	7	0 50 38·797	+ 3·3007	+ 0·031	+ 0·0141	+ 0·042
109	...	...	...	...	W.B. 0. 849	8·8‡	89·79	4	0 50 43·540	+ 3·1355	+ 0·011	0·	0·000
110†	262	...	266	860	Toucani....λ^2	5·4	90·46	12	0 50 53·549	+ 2·2581	— 0·033	— 0·010	+ 0·005
111	...	...	...	...	B.D. + 13° No. 130 ...	8·7‡	89·86	4	0 50 55·520	+ 3·1469	+ 0·012	...	...
112	...	...	...	...	W.B. 0. 854	8·7‡	89·86	8	0 51 2·340	+ 3·1215	+ 0·010	0·	0·000
113	...	...	...	...	B.D. + 11° No. 120 ...	8·2‡	89·78	8	0 51 36·070	+ 3·1350	+ 0·011	0·	0·000
114	...	243	269	...	Piazzi 0. 243	6·0‡	89·83	13	0 52 8·160	+ 3·1427	+ 0·012	0·	0·000
115	265	...	...	893	Lacaille 265	7¾*	87·88	7	0 52 45·384	+ 2·6698	— 0·023	...	...
116	268	...	...	901	Lacaille 268	9*	89·40	6	0 53 9·061	+ 2·6742	— 0·023	...	...
117	...	...	...	899	Lalande 1681	6·7*	89·18	6	0 53 11·467	+ 3·0376	+ 0·002	...	...
118†	266	250	272	902	Sculptoris ....α	4·1	87·86	10	0 53 18·295	+ 2·8950	— 0·010	— 0·0031	— 0·007
119	...	...	...	...	Lalande 1700	7·8†	90·39	6	0 53 36·960	+ 2·9602	— 0·005	...	...
120	270	...	...	911	Lacaille 270	7¼*	90·39	6	0 53 50·918	+ 2·6761	— 0·022	...	...
121	...	...	...	...	W.B. 0. 905	8·5‡	89·74	4	0 53 56·980	+ 3·1503	+ 0·012	0·	0·000
122	281	...	...	920	Lacaille 281	7½*	92·68	10	0 54 16·057	+ 1·6979	— 0·008	...	...
123	274	...	...	933	Lacaille 274	6·9*	87·21	3	0 55 24·131	+ 2·8329	— 0·013	...	...
124	...	255	...	...	Piazzi 0. 255	8·2‡	89·74	4	0 55 28·770	+ 3·1324	+ 0·010	0·	0·000
125	...	257	...	...	Piazzi 0.257 (as one mass)	8·0‡	89·79	8	0 55 36·010	+ 3·1368	+ 0·011	— 0·0007	0·000
126	110	260	281	...	70 Piscium	8·0†	87·84	1	0 56 23·750	+ 3·1145	+ 0·009	— 0·0020	— 0·004
127	...	...	...	...	W.B. 0. 960	8·5‡	89·81	10	0 56 46·710	+ 3·1522	+ 0·012	0·	0·000
128	285	...	287	950	Lacaille 285	6·9*	90·38	6	0 56 47·728	+ 2·4696	— 0·027	...	...
129	...	...	...	...	Lalande 1818	8·5‡	89·82	6	0 57 12·900	+ 3·1644	+ 0·014	— 0·0018	0·000
130	113	264	288	...	71 Piscium ....ϵ	4·5	88·50	48	0 57 14·033	+ 3·1148	+ 0·009	— 0·0070	— 0·011
131	...	...	...	...	Lalande 1822	7·8‡	89·87	8	0 57 19·520	+ 3·1456	+ 0·012	— 0·0032	0·000
132†	288	...	292	959	Lacaille 288	5·9	91·27	12	0 57 22·611	+ 2·5506	— 0·025	— 0·008	+ 0·010
133	...	...	...	...	W.B. 0. 984	8·7‡	89·75	4	0 58 3·720	+ 3·1520	+ 0·012	— 0·0032	— 0·001
134	...	...	...	...	Lalande 1876	8·3†	86·84	1	0 58 50·330	+ 3·0375	+ 0·002	...	...
135	...	...	...	...	Lalande 1880	7·8†	86·85	1	0 59 3·230	+ 3·0372	+ 0·002	...	...
136	119	274	305	...	72 Piscium	6·0‡	89·80	14	0 59 16·910	+ 3·1600	+ 0·013	— 0·0009	0·000
137	...	...	309	990	C.G.A. 990	7*	87·22	6	0 59 29·104	+ 2·6842	— 0·019	...	...
138	...	...	...	...	B.D. + 14° No. 168 ...	9·0‡	89·80	10	1 0 0·190	+ 3·1613	+ 0·013	...	...
139	...	...	...	...	W.B. 0. 1026	8·4†	94·84	3	1 0 12·390	+ 3·0714	+ 0·005	...	...
140	...	...	...	...	Lalande 1916	8·5‡	89·74	4	1 0 32·780	+ 3·1708	+ 0·014	+ 0·0004	0·000

132. ω Phœnicis in B.A.C.

No.	Mean Date. 1800+	No. of Obs.	Mean Dec. 1890·0.	Sec. of Final Dec.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_δ.	Corr. for μ_δ to 1890·0.	Fallows and Henderson.	Johnson.	Cape Catalogues. 1840.	1850.	1860.	1880.	1885.	Melbourne, 1870 and 1880.
			° ′ ″	″	s	s	s	s								
106	87·78	11	— 47 59 48·96	49·09	+ 19·574	— 0·10	...	...	...	...	...	...	...	362	...	...
107*	89·78	6	+ 13 21 21·78	21·54	+ 19·570	— 0·11	0·	0·00	...	...	...	...	...	...	...	...
108	88·25	12	+ 37 54 9·92	9·39	+ 19·565	— 0·11	+ 0·049	+0·09	...	...	...	...	...	...	101	50
109*	89·79	4	+ 12 7 3·29	3·05	+ 19·564	— 0·11	0·	0·00	...	...	...	...	...	...	...	...
110	90·46	12	— 70 7 19·47	19·42	+ 19·560	— 0·08	— 0·05	+0·02	...	...	72	127	...	366	...	...
111*	89·86	4	+ 14 10 49·62	49·29	+ 19·560	— 0·11	...	...	...	...	...	...	...	...	...	...
112*	89·86	8	+ 9 25 13·39	13·07	+ 19·558	— 0·11	0·	0·00	...	...	...	...	...	...	...	...
113*	89·78	8	+ 11 50 5·73	5·50	+ 19·547	— 0·11	0·	0·00	...	...	...	...	...	...	...	...
114*	89·83	14	+ 13 6 3·90	3·61	+ 19·536	— 0·11	0·	0·00	...	...	...	...	...	...	...	...
115	87·71	6	— 52 51 41·12	41·24	+ 19·524	— 0·10	...	...	...	...	...	...	...	374	103	...
116	89·40	6	— 52 21 7·96	8·08	+ 19·516	— 0·10	...	...	...	...	...	...	...	375	104	...
117	89·18	6	— 6 28 28·69	28·91	+ 19·515	— 0·11	...	...	...	...	...	...	...	...	...	...
118	87·78	12	— 29 57 7·58	7·71	+ 19·513	— 0·11	— 0·020	—0·04	16	18	73	130	26	378	107	...
119	90·39	6	— 19 55 13·58	13·75	+ 19·507	— 0·11	...	...	...	...	...	...	...	...	...	...
120	90·39	6	— 51 51 34·71	34·66	+ 19·502	— 0·10	...	...	...	...	...	...	...	381	108	...
121*	89·74	4	+ 14 0 58·13	57·94	+ 19·500	— 0·12	0·	0·00	...	...	...	...	...	...	...	...
122	92·34	12	— 77 8 56·19	56·21	+ 19·493	— 0·07	...	...	...	...	...	...	...	385	...	...
123	87·28	5	— 36 49 52·23	52·35	+ 19·470	— 0·11	...	...	...	...	...	...	...	388	...	...
124*	89·74	4	+ 10 35 18·56	18·38	+ 19·468	— 0·12	+ 0·026	+0·01	...	...	...	...	...	...	...	...
125†	89·79	8	+ 11 19 10·82	10·59	+ 19·466	— 0·12	+ 0·025	+0·01	...	...	...	...	...	...	...	...
126	87·84	1	+ 7 20 50·56	50·24	+ 19·449	— 0·12	+ 0·07	+0·15	...	...	...	...	...	...	...	...
127*	89·81	10	+ 13 39 37·14	36·86	+ 19·441	— 0·12	0·	0·00	...	...	...	...	...	...	...	...
128	90·38	6	— 61 27 19·95	20·01	+ 19·440	— 0·10	...	...	...	...	...	136	...	397	...	66
129*	89·82	6	+ 15 32 46·40	46·12	+ 19·431	— 0·12	— 0·119	—0·02	...	...	...	...	...	...	...	...
130	89·26	57	+ 7 17 52·10	51·84	+ 19·431	— 0·12	+ 0·039	+0·03	...	...	76	137	27	400	112	67*
131*	89·87	8	+ 12 27 29·74	29·41	+ 19·429	— 0·12	— 0·046	—0·01	...	...	...	...	...	...	...	...
132*	91·27	12	— 57 35 41·58	41·62	+ 19·428	— 0·10	0·00	0·00	...	...	78	140	...	402	...	56
133*	89·75	4	+ 13 20 45·79	45·58	+ 19·413	— 0·12	— 0·019	0·00	...	...	...	...	...	...	...	...
134	86·84	1	— 5 53 41·05	41·20	+ 19·396	— 0·12	...	...	...	...	...	...	...	...	...	...
135	86·85	2	— 5 54 42·12	42·27	+ 19·391	— 0·12	...	...	...	...	...	...	...	...	...	...
136*	89·80	14	+ 14 21 15·59	15·31	+ 19·386	— 0·13	+ 0·055	+0·01	...	...	...	...	...	...	...	...
137	87·22	6	— 48 31 52·17	52·25	+ 19·381	— 0·11	...	...	...	...	...	147	...	419	...	...
138*	89·80	10	+ 14 23 34·97	34·71	+ 19·370	— 0·13	...	...	...	...	...	...	...	...	...	...
139	94·84	3	— 0 14 43·86	44·15	+ 19·365	— 0·12	...	...	...	...	...	...	...	...	...	..
140*	89·74	4	+ 15 43 29·35	29·13	+ 19·357	— 0·13	— 0·060	—0·02	...	...	...	...	...	...	...	...

107, 109, 112, 113, 114, 121, 124, 125, 127, 129, 131, 133, 136, 138, 140. Magnitude and Proper Motion from *Cape Annals*, Vol. VII.
111. Magnitude from *Cape Annals*, Vol. VII.
125. $8^m{\cdot}2, 9^m{\cdot}3$ $0''{\cdot}9$ 175°. Observed as one mass.

No.	Bradley or Lacaille.	Piazzi. 1800.	B.A.C. 1850.	C.G.A. 1875.	Star's Name.	Mag.	Mean Date. 1800+	No. of Obs.	Mean R.A. 1890·0.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_a.	Corr. for μ_a to 1890·0.
									h m s	s	s	s	s
141	128	286	315	1009	28 Ceti	5·4	95·53	3	1 0 33·990	+3·0082	0·000	—0·0005	+ 0·003
142	303	...	...	1017	Lacaille 303	6·3*	86·90	5	1 0 48·060	+2·9122	— 0·006	...	...
143†	308	...	317	1024	Phœnicis (as one mass) β	3·4	87·87	12	1 1 10·429	+2·6903	— 0·018	—0·0059	— 0·013
144	...	...	...	...	Lalande 1959	7·0†	88·58	3	1 1 50·006	+3·3962	+ 0·036	...	...
145	...	...	...	...	Lalande 1974	8·0‡	89·84	10	1 2 2·740	+3·1702	+ 0·014	—0·0042	— 0·001
146	...	...	...	...	Lalande 1976	8·0‡	89·84	4	1 2 5·370	+3·1807	+ 0·015	0·	0·000
147	...	297	325	...	Piazzi 0. 297	6·5†	88·35	9	1 2 36·768	+3·1317	+ 0·010	0·000	0·000
148	...	...	...	...	Lalande 1999	8·6‡	89·84	8	1 2 38·050	+3·1833	+ 0·015	0·	0·000
149†	316	...	333	1057	Toucani ι	5·2	90·58	13	1 2 57·134	+2·3801	— 0·025	+0·007	— 0·004
150*	141	300	332	1056	31 Ceti η	3·6	88·06	10	1 3 3·310	+3·0034	0·000	+0·0125	+ 0·024
151	140	301	334	...	43 Andromedæ β	2·2	88·60	10	1 3 34·303	+3·3292	+ 0·029	+0·0144	+ 0·020
152	318	...	340	1069	Phœnicis ζ	4·1	89·97	12	1 3 45·623	+2·5314	— 0·022	...	...
153	...	...	...	...	Lalande 2067	8·5†	86·85	1	1 4 5·910	+3·0362	+ 0·003	...	...
154	...	311	341	...	Piazzi 0. 311	6·4‡	89·73	4	1 4 21·420	+3·1724	+ 0·014	0·	0·000
155	146	1	345	...	82 Piscium g	5·1	91·74	10	1 5 2·773	+3·2961	+ 0·025	—0·0023	+ 0·004
156	...	...	...	...	B.D. + 17° No. 166	8·8‡	89·77	4	1 5 7·010	+3·1929	+ 0·015	0·	0·000
157	...	...	...	...	Lalande 2103	8·5‡	89·81	10	1 5 13·430	+3·1815	+ 0·014	0·	0·000
158	...	...	...	...	Lalande 2119	8·2‡	89·82	8	1 5 27·250	+3·1671	+ 0·013	—0·0065	— 0·001
159	149	5	349	...	83 Piscium τ	4·7	88·65	12	1 5 36·107	+3·2861	+ 0·024	+0·0045	+ 0·006
160	325	...	354	1100	Lacaille 325	6·8	95·53	3	1 5 44·563	+2·4800	— 0·022	...	...
161	...	...	...	...	Lalande 2158	8·5‡	89·80	7	1 6 59·020	+3·1843	+ 0·014	0·	0·000
162†	328	20	367	1133	Lacaille 328	5·9	88·25	13	1 7 41·303	+2·7637	— 0·012	+0·0030	+ 0·005
163	161	19	370	...	87 Piscium	6·0‡	89·78	8	1 8 17·030	+3·1817	+ 0·014	—0·0034	— 0·001
164	337	...	380	1174	Phœnicis ν	4·9	86·78	7	1 10 12·971	+2·6532	— 0·016	+0·067*	+ 0·216
165	...	...	...	...	B.D. + 16° No. 129	8·3‡	89·77	8	1 10 18·990	+3·1964	+ 0·015	0·	0·000
166	...	...	...	...	Lalande 2284	8·4†	86·85	1	1 10 34·640	+3·0333	+ 0·003	...	...
167	338	...	...	1181	Lacaille 338	7¼*	86·77	6	1 10 36·660	+2·8873	— 0·006	...	...
168	...	...	...	...	Lalande 2263	6·4†	89·07	6	1 10 40·836	+3·4688	+ 0·040	...	...
169	...	...	...	...	B.D. + 15° No. 185	8·8‡	89·77	7	1 11 37·600	+3·1886	+ 0·014	0·	0·000
170	356	...	392	1210	Toucani *seq.* κ	5½*	87·74	13	1 12 2·028	+1·9695	— 0·015	+0·080*	+ 0·181
171	171	36	388	...	89 Piscium f	5·1	88·94	15	1 12 7·515	+3·0944	+ 0·007	—0·0049	— 0·005
172	...	...	...	...	Lalande 2339	8·0‡	89·77	8	1 12 29·300	+3·2076	+ 0·016	—0·0031	— 0·001
173	357	...	...	1232	Lacaille 357	7½*	88·51	10	1 13 22·373	+2·5205	— 0·018	...	...
174	173	41	395	...	90 Piscium ν	4·7	86·73	11	1 13 25·211	+3·2840	+ 0·022	—0·0002	— 0·001
175	...	...	...	...	B.D. — 5° No. 237	8·9†	86·85	1	1 13 53·130	+3·0324	+ 0·003	...	...

No.	Mean Date. 1800+	No. of Obs.	Mean Dec. 1890·0.	Sec. of Final Dec.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_δ.	Corr. for μ_δ to 1890·0.	Fallows and Henderson.	Johnson.	Cape Catalogues. 1840.	1850.	1860.	1880.	1885.	Melbourne, 1870 and 1880.
			° ′ ″	″	″	″	″	″								
141	95·53	3	− 10 25 43·53	43·71	+ 19·356	− 0·12	+ 0·020	−0·11	...	...	...	149	...	426	114	...
142	86·90	6	− 24 34 49·52	49·61	+ 19·351	− 0·12	...	...	...	...	...	...	...	427	...	...
143†	87·87	12	− 47 18 28·31	28·45	+ 19·343	− 0·11	− 0·014	−0·03	17	19	82	151	29	430	116	72
144	89·74	6	+ 42 15 36·12	35·43	+ 19·328	− 0·14	...	...	...	...	...	...	...	...	...	...
145*	89·84	10	+ 15 16 34·53	34·22	+ 19·322	− 0·13	− 0·037	−0·01	...	...	...	...	...	...	...	...
146*	89·84	4	+ 16 49 30·06	29·74	+ 19·322	− 0·13	0·	0·00	...	...	...	...	...	...	...	...
147	88·35	9	+ 9 19 14·44	14·10	+ 19·309	− 0·13	+ 0·02	+0·03	...	...	...	...	...	...	...	...
148*	89·84	8	+ 17 4 0·37	0·04	+ 19·309	− 0·13	− 0·053	−0·01	...	...	...	...	...	...	...	...
149	90·58	13	− 62 21 46·71	46·73	+ 19·301	− 0·10	− 0·01	+0·01	...	...	86	159	31	445	...	77
150	87·95	11	− 10 45 55·19	55·40	+ 19·299	− 0·13	− 0·124	−0·25	...	20	...	158	...	444	118	66
151	88·58	12	+ 35 2 14·18	13·74	+ 19·287	− 0·14	− 0·084	−0·12	...	...	...	...	...	447	119	67
152	90·10	14	− 55 50 2·29	2·28	+ 19·282	− 0·11	...	...	18	21	88	160	32	450	120	78
153	86·84	2	− 5 37 1·40	1·56	+ 19·274	− 0·13	...	...	...	...	...	...	...	...	...	...
154*	89·73	4	+ 15 5 19·08	18·89	+ 19·268	− 0·14	0·	0·00	...	...	...	...	33	...	...	...
155	91·74	10	+ 30 50 22·12	21·76	+ 19·251	− 0·14	+ 0·006	−0·01	...	...	...	...	...	...	...	...
156*	89·77	4	+ 17 48 25·73	25·48	+ 19·249	− 0·14	0·	0·00	...	...	...	...	...	...	...	...
157*	89·81	10	+ 16 11 31·39	31·10	+ 19·247	− 0·14	0·	0·00	...	...	...	...	...	...	...	...
158*	89·82	8	+ 14 6 24·45	24·17	+ 19·241	− 0·14	− 0·034	−0·01	...	...	...	...	...	...	...	...
159	88·65	12	+ 29 30 19·81	19·41	+ 19·237	− 0·14	− 0·012	−0·02	...	...	...	...	...	...	122	...
160	95·53	3	− 57 26 49·09	49·16	+ 19·233	− 0·11	...	...	...	...	92	166	...	457	...	...
161*	89·80	7	+ 16 10 48·63	48·36	+ 19·203	− 0·14	0·	0·00	...	...	...	...	...	...	...	...
162	88·25	13	− 38 26 22·70	22·89	+ 19·185	− 0·13	− 0·029	−0·05	...	...	94	172	...	466	...	...
163*	89·78	8	+ 15 33 4·15	3·91	+ 19·169	− 0·14	− 0·008	0·00	...	...	...	...	...	...	...	...
164	86·78	7	− 46 7 9·49	9·61	+ 19·119	− 0·12	+ 0·15*	+0·48	...	...	96	177	35	483	...	70
165*	89·77	8	+ 17 3 12·75	12·51	+ 19·116	− 0·15	0·	0·00	...	...	...	...	...	...	...	...
166	86·71	2	− 5 31 53·95	54·21	+ 19·109	− 0·14	...	...	...	...	...	...	...	...	...	...
167	86·77	6	− 24 33 16·75	16·92	+ 19·109	− 0·14	...	...	...	...	...	...	...	486	...	...
168	88·91	7	+ 44 19 21·08	20·24	+ 19·107	− 0·16	...	...	...	...	...	...	...	...	...	...
169*	89·77	7	+ 15 46 26·62	26·38	+ 19·081	− 0·15	0·	0·00	...	...	...	...	...	...	...	...
170†	87·74	13	− 69 27 37·61	37·67	+ 19·071	− 0·10	+ 0·07*	+0·16	...	...	99	184	37	496	127	86
171	88·88	20	+ 3 2 6·40	6·19	+ 19·068	− 0·15	− 0·019	−0·02	19	...	98	...	...	...	128	...
172*	89·77	8	+ 17 59 50·76	50·51	+ 19·058	− 0·16	+ 0·005	0·00	...	...	...	...	...	...	...	...
173	88·51	10	− 52 41 6·94	7·14	+ 19·034	− 0·12	...	...	...	...	...	...	...	503	...	...
174	86·83	12	+ 26 41 8·38	8·01	+ 19·033	− 0·16	− 0·003	−0·01	...	...	...	...	...	...	129	...
175	86·71	2	− 5 24 48·65	48·91	+ 19·020	− 0·15	...	...	...	...	...	...	...	...	...	...

143. $4^{m}\cdot2$, $4^{m}\cdot2$ $1''\cdot0$ 23°. Observed as one mass.
145, 146, 148, 154, 156, 157, 158, 161, 163, 165, 169, 172. Magnitude and Proper Motion from *Cape Annals*, Vol. VII.
170. Binary ; $5^{m}\cdot5$, 7^{m}. Brighter star observed.

No.	Bradley or Lacaille.	Piazzi. 1800.	B.A.C. 1850.	C.G.A. 1875.	Star's Name.	Mag.	Mean Date. 1800+	No. of Obs.	Mean R.A. 1890·0.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_a.	Corr. for μ_a to 1890·0.
									h m s	s	s	s	s
176	...	...	...	...	W.B. I. 183	8·3†	86·84	1	1 13 58·150	+ 3·0318	+ 0·003	...	...
177	175	47	400	1241	42 Ceti (as one mass)	6·3	95·53	3	1 14 10·809	+ 3·0644	+ 0·005	— 0·0010	+ 0·006
178	176	48	401	...	91 Piscium .....*l*	5·8	88·18	7	1 15 2·419	+ 3·3026	+ 0·023	0·0000	0·000
179	364	...	...	1265	Lacaille 364.....	·7*	86·84	6	1 15 14·061	+ 2·7499	— 0·011	...	...
180	...	...	...	...	Lalande2483(as one mass)	7·0‡	89·80	49	1 17 5·350	+ 3·1566	+ 0·011	0·	0·000
181	393	...	...	1309	Lacaille 393.....	7·5*	89·03	7	1 17 18·986	+ 1·5950	+ 0·003	...	...
182	391	...	422	1322	Lacaille 391.....	6·9*	95·53	3	1 18 7·852	+ 2·0215	— 0·015	...	...
183†	384	...	421	1323	Lacaille 384.....	5·5	88·08	11	1 18 23·821	+ 2·7975	— 0·008	— 0·005	— 0·010
184*	184	67	420	1326	45 Ceti.....*θ*	3·8	88·33	66	1 18 31·525	+ 3·0034	+ 0·002	— 0·0068	— 0·011
185	390	...	...	1344	Lacaille 390.....	6·5	95·89	3	1 19 36·801	+ 2·7570	— 0·009	...	...
186	395	78	428	1347	Lacaille 395.....	6·3	89·40	6	1 19 55·265	+ 2·6142	— 0·014	...	...
187	190	75	429	1349	46 Ceti	5·3	90·38	6	1 20 12·652	+ 2·9482	— 0·001	+ 0·0013	0·000
188	...	...	...	...	W.B. I. 315	7·8†	86·85	1	1 20 46·380	+ 3·0301	+ 0·004	...	...
189†	409	...	436	1373	Lacaille 409.....	5·8	92·17	12	1 21 16·993	+ 2·0797	— 0·015	— 0·003	+ 0·007
190	192	82	435	1370	47 Ceti	5·8	87·19	6	1 21 25·887	+ 2·9597	0·000	— 0·0003	— 0·001
191	...	84	439	...	Piazzi I. 84	7·2‡	89·80	48	1 22 29·180	+ 3·2120	+ 0·015	+ 0·0051	+ 0·001
192	407	...	...	1391	Lacaille 407.....	6·7*	88·07	5	1 22 43·326	+ 2·8759	— 0·004	...	...
193†	419	94	447	1411	Phœnicis .....*γ*	3·3	87·40	11	1 23 35·272	+ 2·6140	— 0·012	— 0·0052	— 0·014
194*	200*	96	449	1421	48 Ceti	5·1	88·41	4	1 24 19·555	+ 2·8763	— 0·004	+ 0·0024	+ 0·004
195	199	95	448	...	98 Piscium .....*μ*	5·2	90·47	7	1 24 25·274	+ 3·1195	+ 0·009	+ 0·0177	— 0·008
196	...	97	...	...	Piazzi I. 97	7·3†	92·86	6	1 25 9·259	+ 3·3399	+ 0·024	+ 0·016†	— 0·046
197	427	99	452	1435	Lacaille 427 .....*seq.*	6·1	95·91	3	1 25 11·831	+ 2·8275	— 0·005	...	...
198	203	98	453	...	99 Piscium.....*pr.* *η*	3·7	87·42	24	1 25 35·811	+ 3·2012	+ 0·014	— 0·0002	— 0·001
199	...	...	...	...	Lalande 2761	7·0†	88·81	1	1 25 54·159	+ 3·4509	+ 0·033	...	...
200	437	...	460	1461	Lacaille 437.....	5·6	89·63	16	1 26 38·111	+ 2·7778	— 0·007	...	...
201†	440	...	461	1462	Phœnicis .....*δ*	3·9	89·66	8	1 26 40·210	+ 2·4916	— 0·014	+ 0·0115	+ 0·004
202	456	...	...	1523	Lacaille 456.....	6·7*	88·43	13	1 29 38·880	+ 2·8428	— 0·004	...	...
203	207	113	474	...	Bradley 207.....	6·4†	89·89	2	1 29 43·840	+ 3·6423	+ 0·048	— 0·0047	— 0·001
204	459	...	...	1526	Lacaille 459.....	7½*	86·92	6	1 29 47·080	+ 2·7029	— 0·009	...	...
205	209	119	480	...	50 Andromedæ .....*υ*	4·2	88·87	4	1 30 20·297	+ 3·5165	+ 0·037	— 0·0165	— 0·019
206	...	...	...	...	Lalande 2957	8·6†	86·85	1	1 31 9·360	+ 3·0284	+ 0·004	...	...
207	212	124	487	...	Persei .....*υ*	3·7	88·00	1	1 31 14·279	+ 3·6495	+ 0·048	+ 0·0045	+ 0·009
208	214	126	488	...	102 Piscium .....*π*	5·6	88·46	12	1 31 16·020	+ 3·1787	+ 0·012	— 0·0064	— 0·010
209	...	...	...	...	Lalande 2978	8·0†	86·85	1	1 31 39·880	+ 3·0297	+ 0·004	...	...
210	...	...	...	...	Gilliss P. Z. 939.....	8·1‡	91·46	2	1 32 14·028	—11·292	+ 6·308	...	...

194. Fundamental star for Southern Zones.

205. B.A.C. gives no letter.

207. 51 Andromedæ in B.A.C.

No.	Mean Date. 1800+	No. of Obs.	Mean Dec. 1890·0.	Sec. of Final Dec.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_δ.	Corr. for μ_δ to 1890·0.	Fallows and Henderson.	Johnson.	Cape Catalogues. 1840.	1850.	1860.	1880.	1885.	Melbourne, 1870 and 1880.
			° ′ ″	″	″	″	″	″								
176	86·85	2	— 5 29 17·08	17·24	+ 19·018	— 0·15	...	...	...	...	...	...	...	...	...	...
177†	95·53	3	— 1 5 13·01	13·22	+ 19·011	— 0·15	+ 0·002	—0·01	...	...	...	189	...	507	130	...
178	88·18	7	+ 28 9 48·23	47·79	+ 18·988	— 0·16	— 0·088	—0·16	...	...	...	...	...	...	...	...
179	86·84	6	— 36 49 12·27	12·37	+ 18·982	— 0·14	...	...	...	...	...	...	...	512	...	...
180†	89·80	49	+ 10 47 32·49	32·23	+ 18·929	— 0·16	— 0·050	—0·01	...	...	...	...	...	...	...	...
181	89·03	7	— 73 19 34·32	34·37	+ 18·923	— 0·09	...	...	...	...	104	...	...	530	...	...
182	95·53	3	— 66 57 34·65	34·68	+ 18·898	— 0·11	...	...	...	...	106	201	40	537	...	...
183	88·06	12	— 31 31 8·22	8·42	+ 18·891	— 0·14	— 0·07	—0·14	...	...	...	200	...	540	...	*76*
184	88·18	68	— 8 45 3·87	4·06	+ 18·887	— 0·16	— 0·196	—0·36	20*	22	105	199	39	543	134	92*
185	95·89	3	— 34 42 53·56	53·80	+ 18·854	— 0·14	...	...	...	...	...	...	...	550	...	...
186	89·40	6	— 45 6 5·52	5·59	+ 18·846	— 0·14	...	...	...	...	108	205	...	554	...	...
187	90·21	9	— 15 10 16·22	16·38	+ 18·837	— 0·16	+ 0·007	0·00	...	24	109	206	...	555	...	...
188	86·85	2	— 5 14 35·39	35·55	+ 18·821	— 0·16	...	...	...	...	...	...	...	...	...	...
189	91·91	12	— 64 56 29·98	30·02	+ 18·805	— 0·11	— 0·02	+0·04	...	...	110	209	...	563	...	95
190	87·19	6	— 13 37 42·27	42·42	+ 18·800	— 0·16	+ 0·011	+0·03	...	...	...	208	...	564	135	...
191*	89·80	48	+ 16 30 35·23	34·96	+ 18·768	— 0·17	— 0·023	0·00	...	...	...	...	...	...	...	...
192	88·04	6	— 22 36 26·82	27·05	+ 18·761	— 0·16	...	...	...	...	...	...	...	571	...	...
193	87·36	12	— 43 52 54·20	54·26	+ 18·734	— 0·14	— 0·209	—0·55	22*	25	112	211	44	580	137	97
194*	88·41	4	— 22 11 54·01	54·27	+ 18·711	— 0·16	— 0·006	—0·01	...	...	114	213	...	584	138	*80*
195	90·47	7	+ 5 34 35·38	35·18	+ 18·708	— 0·17	— 0·031	+0·01	23	...	113	212	45	585	...	98
196*	92·86	6	+ 28 50 53·07	52·76	+ 18·685	— 0·18	— 0·10†	+0·29	...	...	...	...	...	...	...	...
197†	95·91	3	— 26 46 33·44	33·70	+ 18·682	— 0·16	...	...	...	...	...	215	...	592	...	...
198†	87·44	32	+ 14 46 42·86	42·58	+ 18·670	— 0·18	— 0·003	—0·01	...	...	116	...	46	594	139	99*
199	92·38	6	+ 37 42 19·34	18·87	+ 18·661	— 0·19	...	...	...	...	...	...	...	...	...	...
200	89·63	16	— 30 50 52·60	52·76	+ 18·637	— 0·16	...	...	...	...	...	217	...	599	...	*82*
201	89·66	8	— 49 38 40·31	40·24	+ 18·636	— 0·14	+ 0·153	+0·05	24	26	118	218	47	600	140	100
202	88·43	13	— 24 15 48·94	49·19	+ 18·538	— 0·17	...	...	...	...	...	...	...	622	...	...
203	90·53	8	+ 48 9 40·13	39·16	+ 18·535	— 0·21	— 0·02	+0·01	...	...	...	...	...	...	...	...
204	86·92	6	— 35 54 29·92	29·98	+ 18·534	— 0·16	...	...	...	...	...	...	...	624	...	...
205*	90·83	13	+ 40 51 17·68	17·14	+ 18·515	— 0·20	— 0·374	+0·31	...	...	...	...	...	...	...	...
206	86·85	2	— 4 51 47·89	48·04	+ 18·488	— 0·18	...	...	...	...	...	...	...	...	...	...
207*	91·42	12	+ 48 4 15·39	14·46	+ 18·485	— 0·21	— 0·111	+0·16	...	...	124	...	...	...	143	*88*
208	88·46	12	+ 11 34 43·81	43·46	+ 18·484	— 0·19	+ 0·054	+0·08	...	...	...	...	50	...	144	...
209	86·86	2	— 4 42 14·98	15·12	+ 18·470	— 0·18	...	...	...	...	...	...	...	...	...	...
210*	91·46	2	— 87 54 45·28	45·27	+ 18·451	+ 0·64	...	...	...	...	...	...	...	...	...	...

177. Close binary ; $6^m·9$, $7^m·3$. Observed as one mass.
180. $7^m·5$, $8^m·0$ 0″·5 100°. Observed as one mass.
197. $6^m·1$, $11^m·6$ 2″·6 225°. Brighter star observed.
210. Magnitude from Cape observations. Observed only *S.P.*

180, 191. Magnitude and Proper Motion from *Cape Annals*, Vol. VII.
196. Proper Motion from *Cincinnati Publications*, No. 12.
198. 3^m 7, 11^m 1″·0 15°. Fainter star not seen.

No.	Bradley or Lacaille.	Piazzi. 1800.	B.A.C. 1850.	C.G.A. 1875.	Star's Name.	Mag.	Mean Date. 1800+	No. of Obs.	Mean R.A. 1890·0.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_a.	Corr. for μ_a to 1890·0.
									h m s	s	s	s	s
211†	505	...	512	1586	Lacaille 505	6·0	86·50	23	1 32 55·701	+ 0·3439	+ 0·118	—0·014	— 0·049
212	476	141	503	1590	Lacaille 476.....	5·9	89·81	14	1 33 34·266	+ 2·6713	— 0·008	...	...
213	484	...	507	1594	Eridani .....*a*	0·5	85·00	3	1 33 36·972	+ 2·2294	— 0·013	+0·0092	+ 0·046
214†	475	140	504	1593	Lacaille 475.....	6·6*	87·08	6	1 33 40·287	+ 2·8182	— 0·004	...	...
215	223	138	500	...	105 Piscium	6·1	89·25	6	1 33 44·692	+ 3·2234	+ 0·015	+0·0032	+ 0·002
216	481	...	506	1596	Lacaille 481	6·7*	90·73	6	1 33 49·297	+ 2·5678	— 0·011	...	...
217	...	...	...	...	W.B. I. 586	8·8†	94·91	2	1 34 58·630	+ 3·0854	+ 0·007	...	...
218	...	145	...	...	Piazzi I. 145	6·1	89·70	6	1 35 10·213	+ 3·3262	+ 0·022	...	...
219*	228	150	518	...	106 Piscium .....*v*	4·7	87·97	35	1 35 42·383	+ 3·1193	+ 0·009	—0·0034	— 0·007
220	503	...	...	1651	Lacaille 503.....	8*	89·90	6	1 36 36·797	+ 2·0627	— 0·010	...	...
221	227	151	522	...	Persei. .....ϕ	4·2	...	...	1 36 45	+ 3·7283	+ 0·053	+0·0011	...
222†	501	158	528	1661	Lacaille 501.....	5·7	93·34	10	1 37 11·995	+ 2·6520	— 0·008	—0·0055	+ 0·018
223	502	...	529	1665	Lacaille 502.....	6·7*	88·21	4	1 37 17·791	+ 2·4023	— 0·012	...	...
224	233	163	536	1688	52 Ceti .....τ	3·6	88·26	23	1 38 57·671	+ 2·9066	0·000	—0·1223	— 0·213
225	232	164	537	...	110 Piscium .....*o*	4·4	87·59	17	1 39 35·077	+ 3·1576	+ 0·011	+0·0029	+ 0·007
226*	...	167	539	1709	Piazzi I. 167	5·7	88·57	3	1 40 28·047	+ 3·0100	+ 0·004	—0·0004	— 0·001
227*	511	168	541	1713	Sculptoris .....*pr.* ε	5·3	86·57	7	1 40 29·587	+ 2·8005	— 0·004	+0·0087	+ 0·030
228	576	...	557	1738	Lacaille 576.....	5·9	93·57	8	1 40 52·324	— 1·9535	+ 0·551	+0·070*	— 0·250
229†	551	...	554	1736	Hydri.....τ^1	6·1	94·07	15	1 41 18·154	— 0·0750	+ 0·164	+0·015	— 0·061
230	520	...	548	1733	Lacaille 520.....	5·4	95·91	3	1 41 47·171	+ 2·3538	— 0·011	...	...
231†	523	...	550	1737	Eridani .....q^2	5·1	89·68	12	1 41 54·657	+ 2·2787	— 0·011	+0·0091	+ 0·003
232	...	...	...	...	Gilliss P. Z. 1219	8·7‡	91·46	2	1 42 19·950	—31·075	+33·852	...	...
233	634	...	584	1800	Lacaille 634.....	5·6	91·60	42	1 43 48·007	— 4·0814	+ 1·211	+0·010†	— 0·016
234*	247	192	565	1805	55 Ceti .....ζ	3·9	87·08	13	1 46 1·838	+ 2·9578	+ 0·002	+0·0003	+ 0·001
235	245	193	569	...	2 Trianguli .....*a*	3·6	89·42	12	1 46 48·632	+ 3·4061	+ 0·025	+0·0004	0·000
236	248	197	572	...	5 Arietis (S. Star) .....γ	5·0	92·57	12	1 47 29·662	+ 3·2776	+ 0·017	+0·0035	— 0·009
237	249	196	573	...	5 Arietis (N. Star) .....γ	5·2	91·59	13	1 47 29·680	+ 3·2776	+ 0·017	+0·0035	— 0·006
238*	251	201	574	...	111 Piscium .....ξ	4·7	88·88	16	1 47 51·634	+ 3·1005	+ 0·008	+0·0004	0·000
239	252	202	577	...	6 Arietis ....β	2·8	90·90	10	1 48 33·792	+ 3·2977	+ 0·018	+0·0050	— 0·005
240	606	...	591	1869	Hydri.....τ^2	6·1	86·54	15	1 48 49·431	— 0·6680	+ 0·242	...	...
241†	559	...	582	1864	Phœnicis .....ψ	4·1	92·39	12	1 49 14·165	+ 2·4185	— 0·009	—0·014	+ 0·033
242	565	212	585	1871	Phœnicis .....ϕ	5·0	87·53	8	1 49 48·158	+ 2·4971	— 0·008	...	...
243	562	...	...	1873	Lacaille 562.....	6·9	95·74	3	1 49 58·780	+ 2·7790	— 0·003	...	...
244	...	209	586	...	Piazzi I. 209(as one mass)	6·2†	89·31	7	1 50 12·641	+ 3·0866	+ 0·008	+0·009†	+ 0·006
245†	575	...	596	1905	Eridani .....χ	3·6	87·81	12	1 51 40·363	+ 2·2668	— 0·008	+0·0669	+ 0·147

221. 54 Andromedæ in B.A.C. 227. Fundamental star for Southern Zones. 229, 240, 241. B.A.C. gives no letter.

No.	Mean Date. 1800+	No. of Obs.	Mean Dec. 1890·0.	Sec. of Final Dec.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_δ.	Corr. for μ_δ to 1890·0.	Fallows and Henderson.	Johnson.	Cape Catalogues. 1840.	1850.	1860.	1880.	1885.	Melbourne, 1870 and 1880.
			° ′ ″	″	″	″	″	″								
211	86·79	45	− 79 3 46·96	46·98	+ 18·427	− 0·03	− 0·15	−0·48	...	...	133	240	...	645	145	102*
212	89·81	14	− 37 5 2·74	2·88	+ 18·405	− 0·16	...	...	...	...	131	237	...	647	...	...
213	85·00	2	− 57 47 45·60	45·51	+ 18·403	− 0·14	− 0·040	−0·20	25*	27	132	239	51	650	146	103*
214	87·08	6	− 25 34 54·12	54·23	+ 18·401	− 0·17	...	...	...	...	130	236	...	651	...	...
215	89·25	6	+ 15 50 51·03	50·61	+ 18·399	− 0·20	− 0·008	−0·01	...	...	...	...	...	...	...	...
216	90·73	6	− 43 29 12·56	12·65	+ 18·396	− 0·16	...	...	...	...	...	238	...	652	...	*91*
217	94·91	3	+ 1 21 26·19	25·91	+ 18·356	− 0·19	...	...	...	...	...	...	...	...	...	...
218	89·70	6	+ 25 11 23·74	23·41	+ 18·349	− 0·20	...	...	...	...	...	...	...	...	...	...
219	89·10	109	+ 4 55 50·66	50·40	+ 18·330	− 0·19	+ 0·005	0·00	27	...	134	242	52	665	148	104*
220	89·90	6	− 61 33 20·09	20·17	+ 18·297	− 0·13	...	...	...	...	...	...	...	673	...	...
221*	92·50	10	+ 50 8 6·62	5·41	+ 18·293	− 0·23	− 0·025	+0·06	...	...	...	...	...	...	...	...
222	93·34	10	− 37 23 14·62	14·70	+ 18·276	− 0·17	− 0·039	+0·13	...	...	...	247	...	676	...	...
223	88·21	4	− 50 35 38·19	38·20	+ 18·273	− 0·15	...	...	...	...	139	248	...	677	...	...
224	87·96	24	− 16 31 2·70	2·85	+ 18·213	− 0·18	+ 0·857	+1·75	28	28	142	252	...	685	149	*96*
225	87·67	21	+ 8 36 14·34	14·07	+ 18·190	− 0·20	+ 0·058	+0·14	29	...	143	253	53	688	150	*97*
226	89·14	4	− 6 17 1·58	1·74	+ 18·157	− 0·19	− 0·024	−0·02	...	...	...	254	54	695	151	*98*
227†	86·63	8	− 25 36 9·12	9·29	+ 18·156	− 0·18	− 0·071	−0·24	30	29	144	255	55	696	152	*99*
228	93·24	12	− 83 32 4·64	4·68	+ 18·142	+ 0·11	+ 0·06*	−0·19	...	...	151	262	58	700	...	110*
229*	94·17	16	− 79 42 9·02	9·06	+ 18·126	0·00	+ 0·01	−0·04	...	...	148	261	57	701	...	...
230	95·91	3	− 51 21 58·92	59·13	+ 18·107	− 0·16	...	...	...	...	145	257	...	702	...	*101*
231	89·68	12	− 54 4 28·36	28·39	+ 18·103	− 0·15	+ 0·047	+0·02	...	...	146	258	56	703	154	...
232*	91·46	2	− 89 1 53·26	53·24	+ 18·087	+ 1·95	...	...	...	...	...	...	...	...	...	...
233*	89·79	157	− 85 19 29·91	29·92	+ 18·031	+ 0·25	+ 0·023†	0·00	...	...	...	270	61	725	156	113*
234	87·94	18	− 10 52 43·31	43·46	+ 17·945	− 0·20	− 0·028	−0·06	31*	31	...	266	59	734	158	*106*
235	89·42	12	+ 29 2 33·15	32·87	+ 17·914	− 0·23	− 0·231	−0·13	...	...	...	...	...	...	...	...
236†	92·74	13	+ 18 45 14·68	14·38	+ 17·887	− 0·22	− 0·095	+0·26	...	...	156	...	60	...	...	...
237†	91·82	14	+ 18 45 23·52	23·20	+ 17·887	− 0·22	− 0·102	+0·19	...	...	157	...	60	...	159	...
238	89·17	66	+ 2 38 39·57	39·28	+ 17·873	− 0·21	+ 0·020	+0·02	...	...	158	...	...	...	160	114*
239	90·00	13	+ 20 16 12·24	12·00	+ 17·845	− 0·23	− 0·102	0·00	...	...	159	...	62	749	162	115*
240*	86·75	25	− 80 43 11·77	11·79	+ 17·835	+ 0·04	...	...	...	...	166	275	...	755	163	...
241*	92·39	12	− 46 50 30·05	30·15	+ 17·818	− 0·17	− 0·14	+0·33	...	...	162	272	63	754	164	*111*
242	87·61	7	− 43 2 12·97	13·11	+ 17·795	− 0·18	...	...	...	32	163	273	64	756	...	116
243	95·74	3	− 25 25 49·08	49·29	+ 17·787	− 0·20	...	...	...	...	...	...	...	757	...	...
244†	89·31	7	+ 1 18 15·93	15·65	+ 17·779	− 0·22	+ 0·18†	+0·13	...	...	...	...	...	...	...	...
245	87·81	12	− 52 9 24·05	24·16	+ 17·719	− 0·16	+ 0·256	+0·56	32	33	167	277	67	765	166	117

227. $5^{m}\cdot3$, $9^{m}\cdot3$ 4″·6 61° 1887·1, distance and angle apparently diminishing. Brighter star observed.
232. Magnitude from Cape observations. 233. Proper Motion determined for this Catalogue. 236. 237. Suspected binary.
244. Close binary ; $7^{m}\cdot0$, $7^{m}\cdot0$. Observed as one mass. Proper Motion from *Cincinnati Publications*, No. 12.

No.	Bradley or Lacaille.	Piazzi. 1800.	B.A.C. 1850.	C.G.A. 1875.	Star's Name.	Mag.	Mean Date. 1800+	No. of Obs.	Mean R.A. 1890·0.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_α.	Corr. for μ_α to 1890·0.
									h m s	s	s	s	s
246†	594	...	603	1924	Hydri.....η^2	4·7	89·65	12	1 52 8·770	+1·5022	+ 0·009	+0·0117	+ 0·004
247	601	...	...	1943	Lacaille 601.....	7·2*	90·06	13	1 53 15·221	+1·4268	+ 0·013	...	...
248*	273	232	618	1965	59 Ceti.....υ	3·8	88·05	20	1 54 49·324	+2·8182	— 0·001	+0·0076	+ 0·015
249	599	235	621	1973	Lacaille 599.....	5·4	95·77	3	1 55 6·761	+2·4815	— 0·007	...	...
250†	605	...	623	1981	Hydri.....a	3·0	87·33	12	1 55 17·993	+1·8549	— 0·002	+0·0343	+ 0·092
251	598	...	...	1985	Lacaille 598.....	7·0	87·53	5	1 55 37·484	+2·7719	— 0·002	...	...
252	625	...	...	2001	Lacaille 625.....	7½*	91·71	8	1 55 54·415	+0·4938	+ 0·079	...	...
253	637	...	638	2004	Hydri.....σ	6·3*	86·41	5	1 56 2·671	—0·2279	+ 0·161	...	...
254	277	238	625	...	113 Piscium.....*seq.* a	4·4	89·20	6	1 56 21·350	+3·0978	+ 0·008	+0·0016	+ 0·001
255	609	...	...	2003	Lacaille 609.....	6·9*	90·23	6	1 56 22·666	+2·1251	— 0·007	...	...
256	276	236	628	...	57 Andromedæ.....*pr.* γ	2·3	88·00	2	1 57 8·829	+3·6571	+ 0·039	+0·0021	+ 0·004
257	...	...	...	2052	Lalande 3837	6·7*	87·60	13	1 58 49·958	+2·9270	+ 0·002	...	...
258†	618	251	643	2065	Fornacis.....ν	4·6	88·80	9	1 59 33·612	+2·6906	— 0·003	—0·0015	— 0·002
259	...	...	...	...	Lalande 3853	7·7‡	88·82	6	2 0 10·540	+3·3170	+ 0·018	—0·007	— 0·008
260	630	...	...	2094	Lacaille 630.....	6·7*	89·67	8	2 0 43·518	+2·0980	— 0·006	...	...
261	287	253	648	...	13 Arietis .....a	2·0	85·50	8	2 0 58·218	+3·3575	+ 0·020	+0·0127	+ 0·057
262	636	...	...	2109	Lacaille 636.....	7¼*	89·40	6	2 1 34·432	+2·1906	— 0·006	...	...
263	642	...	...	2114	Lacaille 642.....	7·3*	95·88	3	2 1 39·809	+1·5760	+ 0·007	...	...
264	...	257	650	...	Piazzi I. 257	7·3‡	88·88	7	2 1 43·570	+3·2861	+ 0·017	—0·0023	— 0·003
265	288	254	649	...	58 Andromedæ.....	4·8	87·94	4	2 1 50·836	+3·5895	+ 0·034	+0·0012	+ 0·002
266	760	...	...	2151	Lacaille 760.....	8·1	95·58	13	2 1 55·742	—5·6798	+ 1·572	...	...
267	...	...	...	...	Lalande 3912	7·0†	90·24	6	2 2 4·418	+3·2580	+ 0·015	...	...
268	...	...	...	...	W.B. (2) I. 1455	7·2†	...	...	2 2 49	+3·6945	+ 0·040	...	...
269	290	260	656	...	4 Trianguli .....β	3·1	89·50	12	2 2 59·836	+3·5417	+ 0·030	+0·0118	+ 0·006
270	...	...	...	...	Lalande 3950	6·8‡	88·89	7	2 3 20·480	+3·2782	+ 0·016	+0·007	+ 0·008
271	...	...	...	...	Lalande 3959	7·5‡	88·91	5	2 3 36·570	+3·3201	+ 0·018	0·000	0·000
272	764	...	...	2202	Lacaille 764.....	7·2	95·57	13	2 4 4·614	—5·2753	+ 1·386	...	...
273	645	...	...	2154	Lacaille 645.....	7½*	87·08	7	2 4 6·780	+2·5655	— 0·005	...	...
274	...	...	...	...	Lalande 4013	7·3†	87·63	7	2 4 29·419	+2·8821	+ 0·001	...	...
275	296	267	665	...	15 Arietis	6·0‡	88·87	5	2 4 31·740	+3·3102	+ 0·018	+0·0047	+ 0·005
276	716	...	...	2205	Lacaille 716.....	7·9	92·81	9	2 4 50·679	—2·5981	+ 0·573	...	...
277	...	1	669	...	Piazzi II. 1	7·5‡	88·84	4	2 5 12·680	+3·3372	+ 0·019	+0·0179	+ 0·021
278	302	6	672	...	64 Ceti	5·7	88·59	6	2 5 32·657	+3·1710	+ 0·011	—0·0105	— 0·015
279	301	5	675	...	6 Trianguli .....*pr.*	5·5	90·43	6	2 5 59·340	+3·4723	+ 0·026	—0·0065	+ 0·003
280	304	9	677	2198	63 Ceti	6·1	95·77	3	2 6 0·679	+3·0439	+ 0·007	—0·0015	+ 0·009

248. Fundamental star for Southern Zones.

253. B.A.C. gives no letter.

No.	Mean Date. 1800+	No. of Obs.	Mean Dec. 1890·0.	Sec. of Final Dec.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_δ.	Corr. for μ_δ to 1890·0.	Fallows and Henderson	Johnson.	Cape Catalogues. 1840.	1850.	1860.	1880.	1885.	Melbourne, 1870 and 1880.
			° ′ ″	″	″	″	″	″								
246	89·90	11	− 68 11 18·56	18·61	+ 17·700	− 0·11	+ 0·052	+0·01	...	34	169	281	...	774	...	118
247	90·06	13	− 68 55 45·92	46·07	+ 17·654	− 0·11	...	...	...	...	...	...	...	782	...	...
248*	88·05	20	− 21 36 39·83	40·04	+ 17·589	− 0·21	− 0·018	−0·04	...	35	171	286	...	790	168	*114*
249	95·77	3	− 42 33 42·13	42·30	+ 17·576	− 0·18	...	...	...	...	172	288	...	793	...	...
250	87·60	13	− 62 6 19·08	19·10	+ 17·568	− 0·14	+ 0·010	+0·02	33*	36	173	290	69	795	170	120*
251	87·53	5	− 24 57 6·68	6·85	+ 17·555	− 0·20	...	...	...	...	...	...	...	796	...	...
252	92·96	12	− 75 54 7·07	7·13	+ 17·543	− 0·04	...	...	..	...	...	...	...	799	...	...
253*	86·85	17	− 78 53 10·15	10·12	+ 17·537	+ 0·01	...	...	...	...	181	298	...	804	171	*116*
254†	89·20	6	+ 2 13 56·19	55·86	+ 17·524	− 0·23	− 0·009	−0·01	...	...	...	291	...	800	172	...
255	90·23	6	− 55 32 44·79	44·83	+ 17·523	− 0·16	...	...	...	...	...	...	...	803	...	...
256†	90·17	12	+ 41 48 5·93	5·34	+ 17·490	− 0·27	− 0·051	+0·01	...	...	176	...	...	...	...	*117*
257	87·60	13	− 12 23 16·99	17·18	+ 17·417	− 0·22	...	...	...	...	...	...	...	...	...	...
258	88·49	12	− 29 49 29·45	29·66	+ 17·386	− 0·20	− 0·003	0·00	...	...	...	300	...	822	...	...
259*	88·82	6	+ 20 4 0·87	0·47	+ 17·359	− 0·25	− 0·02	−0·02	...	...	...	...	...	...	...	...
260	89·67	8	− 55 24 28·87	28·96	+ 17·335	− 0·16	...	...	...	...	...	...	...	829	...	...
261	85·56	9	+ 22 56 32·30	32·06	+ 17·324	− 0·25	− 0·134	−0·59	*154*	...	184	301	73	830	175	125*
262	89·40	6	− 52 31 3·71	3·78	+ 17·297	− 0·17	...	...	...	...	...	...	...	834	...	...
263	95·88	3	− 65 39 56·32	56·47	+ 17·292	− 0·12	...	...	...	...	...	...	...	836	...	...
264*	88·88	7	+ 17 30 18·76	18·34	+ 17·290	− 0·25	+ 0·009	+0·01	...	...	...	...	...	...	...	...
265	87·94	4	+ 37 20 13·44	12·90	+ 17·286	− 0·27	− 0·037	−0·08	....	...	...	...	...	...	...	...
266	95·58	13	− 85 34 9·66	9·69	+ 17·280	+ 0·41	...	...	...	...	...	...	...	843	...	...
267	90·24	6	+ 15 16 54·05	53·75	+ 17·275	− 0·25	...	...	...	...	...	...	...	...	...	...
268	91·78	6	+ 42 20 20·78	20·25	+ 17·242	− 0·28	...	...	...	...	...	...	...	...	...	...
269	89·50	12	+ 34 28 0·52	0·12	+ 17·234	− 0·27	− 0·033	−0·02	...	...	...	...	...	....	176	...
270*	88·89	7	+ 16 42 29·00	28·57	+ 17·218	− 0·25	− 0·19	−0·21	...	...	...	...	...	...	...	...
271*	88·92	6	+ 19 49 36·57	36·12	+ 17·206	− 0·26	0·00	0·00	...	...	...	...	...	...	...	...
272	95·57	13	− 85 16 55·47	55·50	+ 17·184	+ 0·39	...	...	...	...	...	...	...	862	...	...
273	87·08	7	− 36 20 44·31	44·38	+ 17·184	− 0·20	...	...	...	...	...	...	...	850	...	...
274	87·69	9	− 15 24 18·31	18·52	+ 17·167	− 0·22	...	...	...	...	...	...	...	....	...	...
275*	88·87	5	+ 18 58 53·07	52·66	+ 17·165	− 0·26	− 0·021	−0·02	...	...	...	...	...	...	...	...
276	93·41	12	− 83 2 6·98	6·96	+ 17·151	+ 0·19	...	...	...	...	...	...	...	863	...	...
277*	88·87	5	+ 20 51 32·35	31·92	+ 17·134	− 0·26	+ 0·001	0·00	...	...	...	...	...	....	...	...
278	88·59	6	+ 8 3 16·34	16·06	+ 17·119	− 0·25	− 0·100	−0·14	...	...	...	...	...	...	...	...
279†	90·43	6	+ 29 47 14·41	13·92	+ 17·099	− 0·27	− 0·055	+0·02	...	...	...	...	...	...	...	...
280	95·77	3	− 2 20 34·19	34·46	+ 17·096	− 0·24	− 0·034	+0·20	...	...	...	311	...	868	...	...

254. Binary ; $4^m·4$, $5^m·5$. Brighter star observed.
259, 264, 270, 271, 275, 277. Magnitude and Proper Motion from *Cape Annals*, Vol. VII.
256. Binary ; $2^m·3$, $4^m·3$. Brighter star observed.
279. $5^m·5$, $7^m·1$ $3''·6$ 78°. Brighter star observed.

No.	Bradley or Lacaille.	Piazzi. 1800.	B.A.C. 1850.	C.G.A. 1875.	Star's Name.	Mag.	Mean Date. 1800+	No. of Obs.	Mean R.A. 1890·0.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_a.	Corr. for μ_a to 1890·0.
									h m s	s	s	s	s
281	...	...	...	...	W.B. (2) II. 75	8·5‡	88·90	6	2 6 9·550	+3·3475	+ 0·019	—0·012	— 0·013
282	...	...	...	...	Lalande 4071	8·4†	93·83	4	2 6 38·040	+3·1938	+ 0·012	...	...
283	303	11	682	...	17 Arietis .....η	5·5‡	88·88	6	2 6 38·520	+3·3375	+ 0·019	+0·0102	+ 0·011
284	306	16	684	...	65 Ceti .....ξ^1	4·5	88·62	13	2 7 10·171	+3·1756	+ 0·012	—0·0032	— 0·004
285	309	20	686	...	Bradley 309.....	7·2‡	88·87	6	2 7 45·520	+3·3174	+ 0·018	—0·0006	— 0·001
286†	666	28	688	2237	Fornacis .....μ	5·2	89·75	8	2 8 3·845	+2·6426	— 0·003	—0·0007	0·000
287	...	...	...	...	Lalande 4136	7·8‡	88·83	6	2 8 46·360	+3·3619	+ 0·020	—0·002	— 0·002
288	...	...	...	...	B.D. + 10° No. 303 ...	8·9†	93·83	4	2 9 48·959	+3·2024	+ 0·013	...	...
289†	682	42	699	2274	Lacaille 682.....	5·9	93·57	10	2 10 4·829	+2·4327	— 0·005	—0·0068	+ 0·024
290	709	...	711	2296	Lacaille 709.....	6·7*	86·62	12	2 10 22·235	—0·0816	+ 0·125	...	...
291	318	37	698	...	9 Trianguli .....γ	4·2	92·93	12	2 10 46·492	+3·5475	+ 0·029	+0·0024	— 0·007
292*	321	47	704	2310	67 Ceti	5·5	88·73	26	2 11 29·817	+2·9843	+ 0·005	+0·0036	+ 0·005
293	...	...	...	...	W.B. (2) II. 233	8·3‡	88·87	6	2 11 32·860	+3·3680	+ 0·020	—0·007	— 0·008
294	320	49	707	...	22 Arietis .....θ	6·0‡	88·43	13	2 12 0·413	+3·3288	+ 0·018	—0·0026	— 0·004
295	...	...	...	...	Lalande 4190	6·3†	...	...	2 12 7	+3·8262	+ 0·046	...	...
296	...	...	...	...	W.B. (2) II. 241.....	8·0‡	88·92	7	2 12 23·560	+3·3585	+ 0·019	—0·002	— 0·002
297†	693	...	717	2339	Eridani .....ϕ	3·7	87·80	13	2 12 34·700	+2·1362	— 0·004	+0·0068	+ 0·015
298	688	...	713	2338	Lacaille 688.....	6·7*	90·10	6	2 12 40·105	+2·5314	— 0·004	...	...
299	...	...	...	...	Lalande 4271	6·0‡	88·87	6	2 12 45·320	+3·3780	+ 0·020	—0·004	— 0·005
300*	329	56	720	2354	68 Ceti.....o	Var.	88·57	7	2 13 47·349	+3·0277	+ 0·006	—0·0022	— 0·003
301	...	...	...	...	Gilliss P.Z. 1342.....	8·5‡	91·46	2	2 13 58·014	—9·7514	+ 3·195	...	...
302	...	58	722	2363	Piazzi II. 58	6·8*	90·08	6	2 14 9·178	+3·0098	+ 0·006	+0·005	0·000
303	734	...	730	2382	Lacaille 734.....	6·6*	92·57	10	2 14 22·104	—0·0981	+ 0·123	...	...
304	...	...	...	...	B.D. + 19° No. 346 ...	8·5‡	88·93	6	2 14 24·600	+3·3362	+ 0·018	—0·003	— 0·003
305	...	...	...	...	B.D. + 22° No. 331 ...	7·8‡	88·92	6	2 15 0·680	+3·3866	+ 0·020	—0·002	— 0·002
306	717	...	734	2412	Lacaille 717.....	5·4	90·93	12	2 16 20·230	+1·9428	— 0·001	...	...
307*	712	73	737	2433	Fornacis.....κ	5·4	87·51	12	2 17 30·465	+2·7314	— 0·001	+0·0123	+ 0·031
308	...	...	...	...	W.B. (2) II. 368	8·5‡	88·87	6	2 17 36·750	+3·3611	+ 0·019	0·000	0·000
309	730	...	...	2448	Lacaille 730.....	8*	88·53	5	2 17 45·996	+1·5855	+ 0·007	...	...
310	...	...	...	...	Lalande 4456	7·3‡	88·93	6	2 19 34·280	+3·4236	+ 0·022	+0·003	+ 0·003
311†	747	...	756	2498	Hydri .....δ	4·2	88·43	10	2 19 47·519	+1·0608	+ 0·029	—0·0120	— 0·019
312	739	...	753	2496	Lacaille 739.....	6·9*	86·86	6	2 19 56·910	+1·8779	0·000	...	...
313	...	...	...	...	W.B. (2) II. 444	7·8‡	88·85	6	2 20 44·670	+3·3898	+ 0·020	+0·002	+ 0·002
314	340	84	752	...	11 Trianguli.....	5·7	91·79	7	2 20 56·761	+3·5416	+ 0·027	—0·0031	+ 0·006
315†	752	...	762	2541	Horologii .....λ	5·4	91·04	11	2 21 49·319	+1·6847	+ 0·004	—0·0098	+ 0·010

307. Fundamental star for Southern Zones.

No.	Mean Date. 1800+	No. of Obs.	Mean Dec. 1890·0.	Sec. of Final Dec.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_δ.	Corr. for μ_δ to 1890·0.	Fallows and Henderson.	Johnson.	Cape Catalogues. 1840.	1850.	1860.	1880.	1885.	Melbourne, 1870 and 1880.
			° ′ ″	″	s	″	″	″								
281*	88·89	5	+ 21 28 0·86	0·40	+ 17·091	— 0·26	— 0·06	—0·07	...	...	...	...	...	...	...	...
282	93·83	4	+ 9 48 42·23	42·01	+ 17·069	— 0·25	...	...	...	...	...	...	...	...	...	...
283*	88·88	6	+ 20 41 37·51	37·07	+ 17·069	— 0·26	+ 0·017	+0·02	...	...	...	...	76	...	...	...
284	88·73	11	+ 8 19 49·87	49·64	+ 17·044	— 0·25	— 0·001	0·00	34	...	191	314	77	872	179	...
285*	88·87	6	+ 19 5 56·61	56·19	+ 17·017	— 0·26	+ 0·018	+0·02	...	...	...	...	...	...	...	...
286	89·20	10	— 31 14 24·31	24·42	+ 17·003	— 0·21	— 0·011	—0·01	...	...	192	317	78	880	180	*128*
287*	88·83	6	+ 22 6 59·52	59·10	+ 16·970	— 0·27	— 0·05	—0·06	...	...	...	...	...	...	...	...
288	93·83	4	+ 10 15 37·70	37·48	+ 16·921	— 0·26	...	...	...	...	...	...	...	...	...	...
289	93·57	10	— 41 40 45·64	45·75	+ 16·909	— 0·20	— 0·037	+0·13	...	...	193	318	...	891	...	*129*
290	86·82	19	— 77 8 24·35	24·40	+ 16·895	0·00	...	...	...	...	197	322	...	899	182	128
291	92·93	12	+ 33 20 16·88	16·43	+ 16·876	— 0·29	— 0·034	+0·10	...	...	...	...	...	...	...	...
292	88·68	40	— 6 55 45·30	45·52	+ 16·842	— 0·24	— 0·109	—0·14	...	...	...	320	79	904	183	129*
293*	88·87	6	+ 22 9 7·64	7·20	+ 16·839	— 0·27	— 0·01	—0·01	...	...	...	...	...	...	...	...
294*	88·43	13	+ 19 23 31·36	31·00	+ 16·818	— 0·27	+ 0·006	+0·01	...	...	195	...	80	...	184	...
295	91·97	6	+ 45 57 53·26	52·53	+ 16·812	— 0·31	...	...	...	...	...	...	...	...	....	...
296*	88·91	6	+ 21 23 23·36	22·89	+ 16·799	— 0·27	— 0·04	—0·04	...	...	...	...	...	...	...	...
297	87·74	14	— 52 1 17·59	17·62	+ 16·790	— 0·18	— 0·038	—0·09	35	38	198	325	81	913	185	131
298	90·10	6	— 36 29 38·10	38·24	+ 16·786	— 0·21	...	...	...	...	...	323	...	914	...	...
299*	88·87	6	+ 22 39 36·69	36·25	+ 16·782	— 0·28	+ 0·01	+0·01	...	...	...	...	...	...	...	...
300*	87·38	8	— 3 28 38·04	38·23	+ 16·732	— 0·25	— 0·230	—0·60	36	39	...	326	...	917	186	*132*
301*	91·46	2	— 86 42 27·61	27·60	+ 16·724	+ 0·78	...	...	...	...	...	...	...	...	...	...
302	90·08	6	— 4 51 7·53	7·69	+ 16·715	— 0·25	+ 0·01	0·00	...	...	...	327	...	920	...	...
303	93·20	12	— 76 52 6·41	6·43	+ 16·704	0·00	...	...	...	...	204	332	...	924	...	...
304*	88·93	6	+ 19 37 8·82	8·36	+ 16·702	— 0·28	— 0·01	—0·01	...	...	...	...	...	...	...	...
305*	88·92	6	+ 22 55 21·64	21·15	+ 16·673	— 0·28	0·00	0·00	...	...	...	...	...	...	...	...
306	90·93	12	— 56 27 0·40	0·48	+ 16·608	— 0·17	...	...	...	...	205	334	...	936	...	*133*
307*	87·55	13	— 24 18 58·36	58·53	+ 16·551	— 0·23	— 0·060	—0·15	...	...	206	336	...	942	188	*136*
308*	88·87	6	+ 20 54 49·54	49·10	+ 16·545	— 0·29	— 0·08	—0·09	...	...	...	...	...	...	...	...
309	88·53	5	— 63 2 58·80	58·93	+ 16·538	— 0·14	...	...	...	...	...	...	...	947	...	...
310*	88·93	6	+ 24 39 44·54	44·08	+ 16·448	— 0·29	+ 0·02	+0·02	...	...	...	...	...	...	...	...
311	88·43	10	— 69 9 36·48	36·46	+ 16·437	— 0·10	+ 0·007	+0·01	39	41	210	346	84	960	189	134
312	86·86	6	— 57 18 49·27	49·31	+ 16·429	— 0·16	...	...	...	...	...	344	...	961	...	...
313*	88·85	6	+ 22 23 0·54	0·11	+ 16·389	— 0·29	+ 0·02	+0·02	...	...	...	...	...	...	...	...
314	91·31	8	+ 31 18 24·26	23·96	+ 16·379	— 0·30	— 0·016	+0·02	...	...	...	...	...	...	...	...
315	91·04	11	— 60 48 16·50	16·51	+ 16·335	— 0·15	— 0·140	+0·15	...	...	212	348	...	971	...	136

281, 283, 285, 287, 293, 294, 296, 299, 304, 305, 308, 310, 313. Magnitude and Proper Motion from *Cape Annals*, Vol. VII.
300. *Mira* Ceti.
301. Magnitude from Cape observations. Observed only *S.P.*

No.	Bradley or Lacaille.	Piazzi. 1800.	B.A.C. 1850.	C.G.A. 1875.	Star's Name.	Mag.	Mean Date. 1800+	No. of Obs.	Mean R.A. 1890·0.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_a.	Corr. for μ_a to 1890·0.
									h m s	s	s	s	s
316	...	...	...	...	Lalande 4536	8·6‡	88·88	6	2 22 0·150	+3·4204	+ 0·021	—0·002	— 0·002
317†	774	...	767	2552	Hydri .....κ	6·0	93·49	12	2 22 12·924	+0·3357	+ 0·076	—0·030	+ 0·105
318	347	94	760	...	73 Ceti .....ξ^2	4·4	88·15	47	2 22 18·608	+3·1814	+ 0·012	+0·0011	+ 0·002
319†	753	...	763	2556	Eridani .....κ	4·3	89·39	12	2 22 57·158	+2·1992	— 0·003	—0·0011	— 0·001
320	...	...	...	...	Lalande 4572	6·0‡	88·89	6	2 22 57·400	+3·4036	+ 0·020	+0·003	+ 0·003
321	...	...	...	...	W.B. (2) II. 503	7·5‡	88·89	6	2 23 4·450	+3·3741	+ 0·019	0·000	0·000
322	...	...	764	...	Lalande 4602 .....*pr.*	6·3†	89·75	6	2 23 42·902	+3·1978	+ 0·012	...	...
323	...	...	...	...	Gilliss P.Z. 4034.....	9·0‡	91·46	2	2 23 47·110	—173·20	+617·11	...	...
324	...	96	766	...	Piazzi II. 96	6·2‡	88·89	6	2 24 12·720	+3·4352	+ 0·022	+0·0042	+ 0·005
325	...	...	...	2583	C.G.A. 2583	6·9*	88·93	6	2 24 13·703	+2·7621	+ 0·001	...	...
326	350	102	772	...	14 Trianguli	5·3	90·41	6	2 25 23·322	+3·6409	+ 0·031	+0·0016	— 0·001
327*	356	113	781	2642	76 Ceti .....σ	4·7	87·87	12	2 26 52·441	+2·8474	+ 0·002	—0·0062	— 0·013
328	...	...	...	...	W.B. II. 422.....	8·3†	86·57	3	2 27 6·459	+3·0412	+ 0·007	...	...
329	785	...	787	2668	Lacaille 785.....	7·3*	87·76	6	2 28 10·500	+2·2282	— 0·003	...	...
330	...	...	...	...	Lalande 4748	8·2‡	88·88	6	2 28 18·630	+3·4383	+ 0·021	+ 0·006	+ 0·007
331	...	...	...	...	W.B. (2) II. 637	8·1‡	88·88	7	2 28 23·460	+3·4062	+ 0·020	—0·006	— 0·007
332†	781	120	788	2681	Fornacis .....λ^1	5·7	89·22	11	2 28 31·763	+2·5046	— 0·002	—0·0065	— 0·005
333	363	124	792	2711	79 Ceti	7·0*	87·41	4	2 29 49·035	+3·0152	+ 0·006	—0·0130	— 0·034
334	...	123	793	...	Piazzi II. 123	5·9	92·13	8	2 30 3·215	+3·1633	+ 0·011	+0·1245†	— 0·265
335	362	125	794	...	78 Ceti .....ν	4·9	94·44	6	2 30 6·097	+3·1453	+ 0·010	—0·0051	+ 0·023
336	...	...	...	...	Lalande 4808	7·6‡	88·91	6	2 30 25·480	+3·4116	+ 0·020	*	*
337	361	128	797	...	30 Arietis	7·0‡	88·86	5	2 30 39·910	+3·4391	+ 0·021	+0·0077	+ 0·009
338	...	...	...	...	W.B. II. 491	8·5†	93·83	3	2 31 7·119	+3·2529	+ 0·014	...	...
339	...	...	...	...	Lalande 4846	8·3‡	88·86	6	2 31 32·060	+3·4151	+ 0·020	0·000	0·000
340	367	136	808	...	32 Arietis .....ν	5·4	90·10	10	2 32 34·217	+3·3975	+ 0·019	—0·0019	0·000
341	839	...	...	2792	Lacaille 839.....	7·0*	94·94	4	2 32 53·535	+0·3956	+ 0·066	...	...
342	...	...	...	...	W.B. II. 537 (as one mass)	8·7†	86·60	2	2 33 20·859	+3·0426	+ 0·007	...	...
343†	821	...	820	2802	Horologii .....η	5·1	93·91	10	2 33 46·644	+1·9687	0·000	+0·0021	— 0·008
344*	372	144	811	2799	82 Ceti .....δ	4·1	87·75	20	2 33 50·632	+3·0704	+ 0·008	+0·0004	+ 0·001
345	815	...	818	2806	Lacaille 815.....	6·4*	88·72	4	2 33 58·645	+2·4114	— 0·002	...	...
346†	883	...	833	2824	Hydri .....μ	5·3	93·32	10	2 34 1·080	—1·4569	+ 0·258	+0·0390	— 0·130
347	375	149	815	2810	83 Ceti .....ε	5·0	93·46	8	2 34 14·613	+2·8902	+ 0·004	+0·0081	— 0·028
348	...	...	...	...	Lalande 4963	7·1†	92·94	6	2 35 36·802	+3·6351	+ 0·029	...	...
349	...	...	...	...	Gilliss P.Z. 1534.....	8·1‡	91·46	2	2 35 41·043	—6·2453	+ 1·319	...	...
350	854	...	835	2853	Lacaille 854.....	7·1	95·95	3	2 36 5·586	+1·0124	+ 0·029	...	...

332. B.A.C. gives no letter.

337. B.A.C. assigns the Flamsteed No. to Bradley 360.

No.	Mean Date. 1800+	No. of Obs.	Mean Dec. 1890·0.	Sec. of Final Dec.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_δ.	Corr. for μ_δ to 1890·0.	Fallows and Henderson.	Johnson.	Cape Catalogues. 1840.	1850.	1860.	1880.	1885.	Melbourne, 1870 and 1880.
			° ′ ″	″	″	″	″	″								
316*	88·88	6	+ 24 8 17·70	17·23	+ 16·325	— 0·30	0·00	0·00	...	...	...	...	...	...	...	...
317	93·49	12	— 74 8 38·60	38·64	+ 16·314	— 0·04	— 0·020	+0·07	...	...	215	351	...	975	...	...
318	88·40	68	+ 7 57 60·25	59·95	+ 16·310	— 0·28	— 0·001	0·00	...	...	211	347	85	973	192	135*
319	89·39	12	— 48 11 52·13	52·17	+ 16·277	— 0·20	— 0·018	—0·01	40	42	213	349	86	978	193	137
320*	88·89	6	+ 22 58 38·76	38·30	+ 16·277	— 0·30	— 0·02	—0·02	...	...	...	...	...	...	...	...
321*	88·89	6	+ 21 6 10·77	10·32	+ 16·271	— 0·29	— 0·03	—0·03	...	...	...	...	...	...	...	...
322†	89·75	6	+ 9 4 27·45	27·23	+ 16·238	— 0·28	...	...	...	...	...	...	...	...	...	...
323*	91·46	2	— 89 44 41·75	41·72	+ 16·234	+14·82	...	...	...	...	...	...	...	...	...	...
324*	88·89	6	+ 24 44 50·40	49·92	+ 16·212	— 0·30	— 0·068	—0·08	...	...	...	...	...	...	...	...
325	88·93	6	— 21 31 41·15	41·32	+ 16·211	— 0·24	...	...	...	...	...	...	...	...	...	...
326	90·41	6	+ 35 39 32·43	31·94	+ 16·152	— 0·32	+ 0·014	—0·01	...	...	...	...	...	...	...	...
327	87·80	13	— 15 43 39·62	39·75	+ 16·074	— 0·26	— 0·108	—0·24	42	43	221	359	88	1009	195	*145*
328	86·57	3	— 2 14 32·23	32·58	+ 16·062	— 0·27	...	...	...	...	...	...	...	...	...	...
329	87·76	6	— 46 21 22·07	22·22	+ 16·006	— 0·20	...	...	...	...	...	361	89	1018	...	...
330*	88·88	6	+ 24 24 36·41	35·94	+ 15·998	— 0·31	+ 0·03	+0·03	...	...	...	...	...	...	...	...
331*	88·89	6	+ 22 29 6·76	6·30	+ 15·995	— 0·30	— 0·02	—0·02	...	...	...	...	...	...	...	...
332*	89·36	12	— 35 8 2·57	2·78	+ 15·987	— 0·23	— 0·006	0·00	...	...	222	362	...	1022	...	*147*
333	87·42	6	— 4 1 42·84	43·03	+ 15·919	— 0·27	— 0·427	—1·10	...	...	...	365	...	1032	...	...
334*	92·13	8	+ 6 21 44·44	44·25	+ 15·906	— 0·29	+ 1·456†	—3·10	...	...	224	...	...	...	...	...
335	94·44	6	+ 5 6 45·94	45·68	+ 15·904	— 0·29	— 0·028	+0·12	...	...	225	366	...	1034	198	...
336*	88·91	6	+ 22 34 21·49	21·02	+ 15·887	— 0·31	+ 0·01	+0·01	...	...	...	...	...	...	...	...
337*	88·86	5	+ 24 10 4·93	4·48	+ 15·873	— 0·31	+ 0·001	0·00	...	...	...	...	...	...	...	...
338	93·83	3	+ 12 25 30·87	30·64	+ 15·849	— 0·30	...	...	...	...	...	...	...	...	...	...
339*	88·86	6	+ 22 39 5·75	5·31	+ 15·827	— 0·31	— 0·03	—0·03	...	...	...	...	...	...	...	...
340	90·10	10	+ 21 29 6·89	6·62	+ 15·771	— 0·31	— 0·011	0·00	...	...	229	...	90	...	200	...
341	94·94	6	— 72 49 45·45	45·53	+ 15·754	— 0·04	...	...	...	...	...	...	...	1055	...	...
342†	86·70	3	— 2 3 39·82	40·09	+ 15·729	— 0·28	...	...	...	...	...	...	...	....	...	...
343	93·91	10	— 53 1 10·03	10·21	+ 15·706	— 0·18	— 0·049	+0·19	...	...	...	377	91	1058	...	*151*
344	87·70	23	— 0 8 46·55	46·81	+ 15·702	— 0·29	— 0·007	—0·02	44	44	...	373	...	1057	201	*150*
345	88·72	4	— 38 27 51·79	51·90	+ 15·695	— 0·23	...	...	...	...	...	376	...	1060	...	*152*
346	90·76	17	— 79 35 21·02	21·09	+ 15·693	+ 0·13	— 0·038	+0·03	...	...	238	382	...	1071	...	141*
347	93·46	8	— 12 20 22·60	22·80	+ 15·680	— 0·27	— 0·245	+0·85	...	45	...	375	...	1064	202	...
348	92·94	6	+ 33 49 23·88	23·41	+ 15·605	— 0·34	...	...	...	...	...	...	...	...	...	...
349*	91·46	2	— 84 50 58·15	58·16	+ 15·601	+ 0·57	...	...	...	...	...	...	...	...	...	...
350	95·95	3	— 67 46 29·81	29·99	+ 15·578	— 0·10	...	...	...	...	...	383	...	1085	...	...

316, 320, 321, 324, 330, 331, 336, 337, 339. Magnitude and Proper Motion from *Cape Annals*, Vol. VII.
322. $6^m{\cdot}3$, 11^m $1''{\cdot}7$ 139°. Fainter star not seen.
323, 349. Magnitude from Cape observations. Observed only *S.P.*
334. Proper Motion from *Bonn Observations*, Vol. VII.
336. Proper Motion in R.A., $0^s{\cdot}000$, or assuming a correction of + 1^s to Lalande's R.A. — $0^s{\cdot}006$.
342. $9^m{\cdot}4$, $9^m{\cdot}6$ $1''$ 359° 1891·9. Observed as one mass.

No.	Bradley or Lacaille.	Piazzi. 1800.	B.A.C. 1850.	C.G.A. 1875.	Star's Name.	Mag.	Mean Date. 1800+	No. of Obs.	Mean R.A. 1890·0.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_a.	Corr. for μ_a to 1890·0.
									h m s	s	s	s	
351	377	153	825	...	34 Arietis .....μ	5·8	92·95	6	2 36 9·822	+ 3·3714	+ 0·018	+0·0009	— 0·003
352†	831	159	832	2851	Eridani .....ι	3·9	94·62	10	2 36 19·605	+ 2·3571	— 0·002	+0·0075	— 0·035
353	374	150	827	...	13 Persei .....θ	4·2	88·00	1	2 36 40·979	+ 4·0359	+ 0·051	+0·0330	+ 0·066
354	380	157	831	...	35 Arietis	4·7	92·13	9	2 36 59·798	+ 3·5079	+ 0·023	—0·0019	+ 0·004
355	1029	...	...	2928	Lacaille 1029	7½*	93·43	33	2 37 5·619	— 9·6852	+ 2·560	—0·018†	+ 0·062
356	383	161	837	...	86 Ceti .....*seq.* γ	3·6	86·80	10	2 37 36·095	+ 3·1136	+ 0·009	—0·0114	— 0·036
357†	871	...	849	2887	Hydri .....ε	4·2	93·21	11	2 37 53·875	+ 0·8883	+ 0·034	+0·0147	— 0·047
358*	388	170	847	2894	89 Ceti.....π	4·3	87·19	16	2 38 53·241	+ 2·8543	+ 0·003	—0·0028	— 0·008
359	387	167	845	...	87 Ceti .....μ	4·4	87·91	11	2 38 59·682	+ 3·2178	+ 0·012	+0·0164	+ 0·034
360	1884	...	...	3149	Lacaille 1884	7·9	95·54	14	2 39 42·483	—40·493	+31·840	...	...
361	893	...	869	2965	Lacaille 893.....	6·2	90·25	6	2 41 31·345	+ 1·0143	+ 0·027	+0·017*	— 0·004
362	873	...	...	2970	Lacaille 873.....	7·1	86·94	3	2 42 13·920	+ 2·7045	+ 0·001	...	...
363	397	185	870	...	42 Arietis.....*pr.* π	5·7	95·95	3	2 43 9·258	+ 3·3396	+ 0·016	—0·0011	+ 0·007
364	395	186	872	...	41 Arietis	3·8	88·71	14	2 43 30·503	+ 3·5146	+ 0·023	+0·0032	+ 0·004
365	394	183	871	...	16 Persei	4·4	88·59	6	2 43 38·302	+ 3·7532	+ 0·033	+0·0165	+ 0·023
366†	888	195	879	3009	Fornacis.....β	4·2	88·04	11	2 44 29·123	+ 2·5044	— 0·001	+0·0049	+ 0·010
367	400	192	881	...	43 Arietis .....σ	5·5	86·17	12	2 45 25·108	+ 3·3030	+ 0·015	—0·0002	— 0·001
368*	404	202	887	3034	2 Eridani .....τ^2	4·8	86·90	10	2 46 2·985	+ 2·7242	+ 0·002	—0·0058	— 0·018
369	906	...	...	3056	Lacaille 906.....	7·1*	89·59	6	2 46 54·677	+ 2·2876	— 0·001	...	...
370	919	...	899	3080	Lacaille 919.....	7·5*	89·11	6	2 48 4·472	+ 1·6600	+ 0·006	...	...
371	...	...	...	3100	Lalande 5397	6·7*	87·95	6	2 49 9·557	+ 3·0647	+ 0·008	...	...
372	1076	...	...	3172	Lacaille 1076	7·3	95·59	15	2 49 16·508	— 8·3177	+ 1·806	...	...
373	...	...	...	...	Gilliss P.Z. 1752.....	8·9‡	91·46	2	2 49 23·689	—20·399	+ 8·235	...	...
374	921	...	...	3137	Lacaille 921.....	7½*	88·69	8	2 50 35·818	+ 2·6233	+ 0·001	...	...
375	922	...	...	3140	Lacaille 922.....	6·9*	95·90	3	2 50 39·300	+ 2·6355	+ 0·021	...	...
376*	413	219	910	3146	3 Eridani .....η	4·0	89·11	55	2 51 3·189	+ 2·9233	+ 0·005	+0·0038	+ 0·003
377	972	...	928	3171	Hydri .....ν	4·7	86·77	17	2 51 11·257	— 0·4437	+ 0·119	...	...
378	938	...	...	3183	Lacaille 938..	7½*	94·91	12	2 52 21·830	+ 2·3807	0·000	...	...
379	414	...	920	...	Bradley 414(as one mass)	7·0†	89·11	6	2 52 34·738	+ 3·4267	+ 0·019	+0·0034	+ 0·003
380	415	224	921	...	48 Arietis (as one mass)..ε	4·6	88·83	12	2 52 55·301	+ 3·4221	+ 0·018	—0·0025	— 0·003
381	...	...	...	3210	Lalande 5532	6·2*	89·63	7	2 53 27·297	+ 2·9071	+ 0·005	...	...
382†	950	238	937	3223	Eridani.....*pr.* θ	3*	88·29	12	2 54 5·475	+ 2·2793	0·000	—0·0077	— 0·013
383	953	243	944	3245	Lacaille 953.....	6·4	87·11	6	2 55 6·157	+ 2·4731	0·000	...	...
384	965	...	...	3259	Lacaille 965.....	7·4*	95·91	3	2 56 2·725	+ 2·2270	0·000	...	...
385*	428	244	949	...	92 Ceti.....α	2·7	89·32	34	2 56 31·708	+ 3·1320	+ 0·010	—0·0029	— 0·002

359. B.A.C. assigns to Aries.

368. Fundamental star for Southern Zones.

No.	Mean Date. 1800+	No. of Obs.	Mean Dec. 1890·0.	Sec. of Final Dec.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_δ.	Corr. for μ_δ to 1890·0.	Fallows and Henderson.	Johnson.	Cape Catalogues. 1840.	1850.	1860.	1880.	1885.	Melbourne, 1870 and 1880.
			° ′ ″	″	″	″	″	″								
351	92·95	6	+ 19 32 32·89	32·51	+ 15·575	− 0·32	− 0·037	+0·12	...	...	234	...	93	...	...	...
352	94·62	10	− 40 19 35·07	35·23	+ 15·566	− 0·22	− 0·030	+0·14	...	47	236	381	94	1086	203	143
353	91·29	8	+ 48 45 47·01	45·90	+ 15·546	− 0·38	− 0·093	+0·12	...	...	233	...	...	...	...	...
354	92·13	9	+ 27 14 19·34	18·90	+ 15·529	− 0·33	− 0·009	+0·02	...	...	...	...	...	...	...	...
355*	91·12	92	− 86 12 17·45	17·47	+ 15·523	+ 0·89	+ 0·001†	0·00	...	...	...	...	...	1117	205	*159*
356†	87·17	12	+ 2 46 19·39	19·19	+ 15·496	− 0·29	− 0·156	−0·44	*126*	...	237	384	95	1096	204	144*
357	93·21	11	− 68 44 18·21	18·30	+ 15·479	− 0·09	− 0·002	+0·01	...	49	249	393	97	1105	...	146
358	87·35	20	− 14 19 29·26	29·48	+ 15·424	− 0·27	− 0·009	−0·02	47	48	245	391	...	1109	206	*158*
359*	87·69	16	+ 9 38 57·87	57·58	+ 15·418	− 0·31	− 0·020	−0·05	...	...	243	389	96	1111	207	...
360	95·19	24	− 88 52 18·14	18·17	+ 15·377	+ 3·78	...	...	...	...	...	...	...	1171	210	153*
361	90·25	6	− 67 10 38·47	38·58	+ 15·276	− 0·10	− 0·06*	+0·01	...	...	256	404	...	1138	...	147
362	87·10	6	− 22 56 43·64	43·74	+ 15·235	− 0·26	...	...	...	...	...	...	...	1141	...	...
363†	95·95	3	+ 17 0 22·84	22·41	+ 15·182	− 0·32	+ 0·001	−0·01	...	...	255	405	...	1147	...	...
364	88·71	14	+ 26 48 24·53	24·15	+ 15·162	− 0·34	− 0·119	−0·15	...	...	...	...	100	...	211	...
365	88·59	6	+ 37 51 55·80	55·15	+ 15·155	− 0·36	− 0·064	−0·09	...	...	...	...	...	...	...	...
366	87·94	12	− 32 52 6·19	6·32	+ 15·106	− 0·25	+ 0·149	+0·31	...	50	261	410	101	1154	...	*163*
367	86·17	12	+ 14 37 42·83	42·61	+ 15·053	− 0·32	− 0·039	−0·15	49	...	...	...	...	1161	212	*165*
368*	86·90	10	− 21 27 27·47	27·67	+ 15·016	− 0·27	− 0·014	−0·04	50	52	265	416	...	1164	213	*166*
369	89·59	6	− 41 25 0·60	0·85	+ 14·966	− 0·23	...	...	...	...	...	...	...	1170	...	...
370	89·11	6	− 57 38 41·94	42·13	+ 14·898	− 0·17	...	...	...	...	...	422	...	1176	...	...
371	87·95	6	− 0 29 49·76	50·03	+ 14·834	− 0·31	...	...	...	...	...	...	...	...	...	...
372	95·59	15	− 85 28 55·50	55·55	+ 14·827	+ 0·81	...	...	...	...	...	...	...	1205	...	...
373*	91·46	2	− 87 48 9·76	9·75	+ 14·820	+ 2·00	...	...	...	...	...	...	...	...	...	...
374	88·69	8	− 26 22 49·71	49·96	+ 14·749	− 0·27	...	...	...	...	...	...	...	1199	...	...
375	95·90	3	− 25 44 55·49	55·76	+ 14·746	− 0·27	...	...	...	...	...	...	...	1201	...	...
376	89·49	63	− 9 20 10·30	10·54	+ 14·722	− 0·30	− 0·215	−0·11	51*	53	...	429	...	1204	215	*171*
377	86·91	27	− 75 30 58·34	58·42	+ 14·714	+ 0·04	...	...	...	...	284	437	...	1211	216	...
378	94·91	12	− 37 8 34·94	35·13	+ 14·644	− 0·24	...	...	...	...	...	...	...	1217	...	...
379†	89·11	6	+ 21 10 38·29	37·87	+ 14·631	− 0·35	− 0·04	−0·04	...	...	...	...	...	...	...	..
380†	88·83	12	+ 20 53 60·08	59·77	+ 14·611	− 0·35	− 0·006	−0·01	...	...	277	...	105	...	217	*174*
381	89·63	7	− 10 12 59·22	59·47	+ 14·579	− 0·30	...	...	...	...	...	...	...	...	...	...
382	88·29	12	− 40 44 44·68	44·75	+ 14·540	− 0·24	+ 0·030	+0·05	*67*	54	286	443	106	1230	...	151
383	87·11	6	− 32 56 44·14	44·23	+ 14·479	− 0·26	...	...	...	...	289	449	...	1239	...	...
384	95·91	3	− 42 18 38·75	38·98	+ 14·422	− 0·23	...	...	...	...	...	...	...	1247	...	...
385	89·58	52	+ 3 39 28·45	28·16	+ 14·392	− 0·32	− 0·073	−0·03	52*	...	291	451	107	1250	220	154*

355. Proper Motion determined for this catalogue.
363. $5^m·7$, $8^m·4$ 3″·3 120°. Brighter star observed.
379. $7^m·8$, $7^m·8$ 0″·3 121° 1891·74. Distance diminishing; angle increasing. Observed as one mass.
380. Close binary; $5^m·2$, $5^m·5$. Observed as one mass.
356. Suspected binary; $3^m·6$, $7^m·4$. Brighter star observed.
373. Magnitude from Cape observations. Observed only *S.P.*

No.	Bradley or Lacaille.	Piazzi. 1800.	B.A.C. 1850.	C.G.A. 1875.	Star's Name.	Mag.	Mean Date. 1800+	No. of Obs.	Mean R.A. 1890·0.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_α.	Corr. for μ_α to 1890·0.
									h m s	s	s	s	s
386†	...	...	956	3279	Horologii .....β	5·0	89·16	12	2 56 43·090	+1·1184	+ 0·022	0·000	0·000
387	963	248	951	3273	Fornacis .....ε	6·0	87·02	6	2 56 52·990	+2·5660	+ 0·001	...	...
388	...	...	...	...	Lalande 5601	6·8†	88·69	4	2 57 21·802	+3·8527	+ 0·035	...	...
389*	434*	249	954	3284	11 Eridani .....τ^3	4·1	91·17	9	2 57 32·513	+2·6551	+ 0·002	—0·0127	+ 0·015
390	429	246	953	...	25 Persei .....ρ	Var.	85·00	1	2 58 7·566	+3·8158	+ 0·033	+0·0103	+ 0·052
391†	974	...	961	3312	Lacaille 974.....	5·7	88·53	12	2 59 10·228	+2·0480	+ 0·001	—0·002	— 0·003
392	1203	...	...	3400	Lacaille 1203	8·1	95·62	13	3 0 49·107	—11·629	+ 2·811	...	...
393	436	254	963	...	26 Persei.....β	Var.	85·60	5	3 1 0·674	+3·8842	+ 0·036	—0·0017	— 0·007
394†	989	...	972	3352	Horologii .....μ	5·1	88·88	12	3 1 1·233	+1·4170	+ 0·012	—0·0118	— 0·013
395	...	253	962	...	Persei .....ι	4·1	...	...	3 1 8	+4·1726	+ 0·050	+0·1271	...
396†	1001	...	982	3375	Hydri .....θ	5·4	87·79	13	3 2 1·864	+0·0786	+ 0·072	+0·0033	+ 0·007
397	983	...	...	3376	Lacaille 983.....	7¾*	86·84	6	3 2 42·542	+2·4567	+ 0·001	...	...
398	988	...	...	3383	Lacaille 988.....	7*	94·67	11	3 3 21·460	+2·5022	+ 0·001	...	...
399	446	2	986	...	57 Arietis .....δ	4·5	87·82	17	3 5 20·307	+3·4113	+ 0·017	+0·0095	+ 0·021
400†	454*	13	997	3462	12 Eridani.....	*	86·92	12	3 7 23·828	+2·5225	+ 0·001	+0·0231	+ 0·071
401	451	11	999	...	58 Arietis .....ζ	4·9	87·75	12	3 8 34·688	+3·4416	+ 0·018	—0·0032	— 0·007
402	...	...	...	...	Lalande 5951	6·8†	88·98	1	3 8 36·179	+4·0504	+ 0·041	...	...
403†	1040	...	1014	3514	Lacaille 1040	5·7	89·38	12	3 9 45·913	+1·5128	+ 0·009	—0·0023	— 0·001
404	1848	...	...	3715	Lacaille 1848	8·4	91·97	45	3 9 58·686	—37·561	+21·182	—0·051†	+ 0·100
405†	1020	25	1015	3522	Lacaille 1020	6·8	93·82	10	3 10 20·574	+2·3563	+ 0·001	+0·0016	— 0·006
406	1026	...	...	3528	Lacaille 1026	7·4*	87·11	6	3 10 34·892	+2·5304	+ 0·001	...	...
407	1105	...	1038	3568	Lacaille 1105	5·7	86·48	8	3 11 18·040	—2·2250	+ 0·273	...	...
408	1044	...	...	3566	Lacaille 1044	7½*	94·62	12	3 12 24·620	+2·4566	+ 0·001	...	...
409	462	34	1029	...	60 Arietis	6·5†	89·08	8	3 13 54·311	+3·5449	+ 0·020	0·0000	0·000
410*	469	43	1037	3607	16 Eridani .....τ^4	3·8	87·53	9	3 14 37·429	+2·6638	+ 0·003	+0·0013	+ 0·003
411	465	40	1034	...	61 Arietis .....τ	5·2	88·96	4	3 14 52·590	+3·4531	+ 0·018	+0·0008	+ 0·001
412	1059	...	1042	3615	Lacaille 1059	6·9*	86·92	6	3 14 58·257	+2·3582	+ 0·001	...	...
413†	1060	47	1044	3623	Eridani c	4·3	87·90	11	3 15 31·545	+2·1171	+ 0·002	+0·2754	+ 0·578
414	464	41	1043	...	33 Persei .....α	1·9	...	...	3 16 28	+4·2546	+ 0·048	+0·0015	...
415	...	...	...	3644	Lalande 6252	6·6*	90·61	6	3 16 45·578	+2·6897	+ 0·003	...	...
416	1071	...	1054	3656	Lacaille 1071	6·3	87·01	4	3 17 32·530	+2·5780	+ 0·002	...	...
417	1097	...	...	3665	Lacaille 1097	7·3	95·93	3	3 17 34·856	+0·7621	+ 0·032	...	...
418	1083	...	...	3680	Lacaille 1083	7·1*	91·65	6	3 18 32·213	+1·9743	+ 0·003	...	...
419†	1131	...	1070	3704	Hydri .....ι	5·5	92·19	19	3 18 42·625	—1·6374	+ 0·195	+0·033	— 0·072
420	477	55	1057	...	1 Tauri .....o	3·8	88·16	31	3 18 53·595	+3·2275	+ 0·012	—0·0052	— 0·010

386, 387, 394, 413. B.A.C. gives no letter.
400. Erroneously designated α Eridani in B.A.C.; α Fornacis in C.G.A.

389. Fundamental star for Southern Zones.
411. τ^1 Arietis in B.A.C.

No.	Mean Date. 1800+	No. of Obs.	Mean Dec. 1890·0.	Sec. of Final Dec.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_δ.	Corr. for μ_δ to 1890·0.	Fallows and Henderson.	Johnson.	Cape Catalogues. 1840.	1850.	1860.	1880.	1885.	Melbourne, 1870 and 1880.
			° ′ ″	″	″	″	″	″								
386*	89·16	12	− 64 30 31·86	32·00	+ 14·381	− 0·12	− 0·04	−0·03	...	...	295	455	...	1256	...	...
387*	87·02	6	− 28 30 45·45	45·61	+ 14·371	− 0·27	...	...	...	...	292	452	...	1255	...	...
388	89·45	6	+ 39 51 43·37	42·68	+ 14·342	− 0·40	...	...	...	...	...	...	...	...	...	...
389*	91·17	9	− 24 3 21·26	21·48	+ 14·331	− 0·28	− 0·050	+0·06	53	56	294	454	...	1258	221	*177*
390*	90·67	12	+ 38 24 49·27	48·83	+ 14·295	− 0·40	− 0·088	+0·06	...	...	...	...	...	...	222	...
391	88·53	12	− 47 24 23·09	23·28	+ 14·231	− 0·22	− 0·01	−0·01	...	...	297	459	...	1263	...	*178*
392	95·62	13	− 86 18 28·62	28·66	+ 14·128	+ 1·20	...	...	...	...	...	...	...	1289	...	...
393*	88·58	12	+ 40 31 53·37	52·82	+ 14·117	− 0·41	+ 0·010	+0·01	...	...	299	...	...	...	224	...
394*	88·88	12	− 60 9 52·14	52·34	+ 14·116	− 0·15	− 0·059	−0·07	...	...	301	464	...	1272	...	157
395	93·47	10	+ 49 11 32·98	31·85	+ 14·110	− 0·44	− 0·033	+0·11	...	...	298	...	...	...	...	...
396	87·79	13	− 72 19 54·97	55·06	+ 14·053	− 0·02	− 0·003	−0·01	...	58	304	467	109	1286	226	160*
397	86·84	6	− 32 46 29·69	29·81	+ 14·010	− 0·26	...	...	...	...	...	...	...	1287	...	...
398	94·61	12	− 30 44 8·74	8·89	+ 13·971	− 0·27	...	...	...	...	303	...	...	1290	...	...
399	87·40	20	+ 19 18 36·97	36·66	+ 13·846	− 0·36	+ 0·005	+0·01	...	...	306	469	110	1295	227	162*
400†	86·92	12	− 29 25 17·50	17·66	+ 13·714	− 0·27	+ 0·644	+1·98	55	59	308	473	111	1317	229	*186*
401	87·75	12	+ 20 38 11·40	10·96	+ 13·639	− 0·37	− 0·070	−0·16	...	...	...	...	112	...	230	...
402	91·79	6	+ 44 56 18·07	17·23	+ 13·638	− 0·44	...	...	...	...	...	...	...	...	...	...
403	89·38	12	− 57 44 0·77	0·95	+ 13·563	− 0·17	− 0·024	−0·01	...	...	318	483	...	1339	...	...
404*	91·05	103	− 88 36 38·08	38·10	+ 13·549	+ 4·04	− 0·030†	+0·03	...	...	...	...	...	1396	235	171*
405	93·82	10	− 35 58 1·28	1·47	+ 13·526	− 0·26	+ 0·025	−0·10	...	...	317	484	...	1344	...	...
406	87·11	6	− 28 45 11·62	11·69	+ 13·510	− 0·28	...	...	...	...	...	...	...	1346	...	...
407	87·01	16	− 79 24 24·26	24·31	+ 13·464	+ 0·24	...	...	...	...	...	493	113	1359	234	...
408	94·62	12	− 31 45 21·31	21·46	+ 13·391	− 0·27	...	...	...	...	...	...	...	1361	...	...
409	89·08	8	+ 25 15 58·21	57·75	+ 13·294	− 0·39	− 0·092	−0·08	...	...	...	...	...	...	...	...
410†	87·53	9	− 22 9 30·65	30·82	+ 13·247	− 0·30	+ 0·037	+0·09	56	61	324	495	...	1377	237	*189*
411*	88·64	6	+ 20 45 0·72	0·27	+ 13·230	− 0·38	− 0·030	−0·04	...	...	...	...	114	1378	...	...
412	86·92	6	− 35 24 11·20	11·29	+ 13·224	− 0·26	...	...	...	...	...	497	...	1381	...	...
413*	87·90	11	− 43 29 29·20	29·34	+ 13·187	− 0·24	+ 0·754	+1·58	...	62	327	499	115	1384	238	166
414	93·57	7	+ 49 28 12·70	11·53	+ 13·125	− 0·47	− 0·033	+0·12	*171*	...	326	498	116	1392	239	167*
415	90·61	6	− 20 43 10·58	10·80	+ 13·105	− 0·30	...	...	...	...	...	...	...	...	...	...
416	87·01	4	− 25 58 54·10	54·18	+ 13·054	− 0·29	...	...	...	...	...	505	...	1401	...	...
417	95·93	3	− 66 16 59·41	59·57	+ 13·050	− 0·09	...	...	...	...	...	...	...	1402	...	168
418	91·65	6	− 47 9 14·99	15·11	+ 12·988	− 0·23	...	...	...	...	...	...	...	1406	...	...
419	90·71	22	− 77 47 22·84	22·97	+ 12·977	+ 0·18	+ 0·06	−0·04	...	...	337	509	118	1412	242	...
420	87·92	37	+ 8 38 29·04	28·76	+ 12·963	− 0·36	− 0·068	−0·14	...	...	...	507	...	1407	241	*193*

390. Limits of magnitude, 3·4–4·2. Irregularly periodic.
400. Binary; $3^m{\cdot}9$, $6^m{\cdot}9$. Probably seen as one star.
410. $3^m{\cdot}8$, $9^m{\cdot}4$ 5″·4 282°. Fainter star probably not seen.
393. Limits of magnitude, 2·3–3·5. Period about 3 days.
404. Proper Motion determined for this catalogue.

No.	Bradley or Lacaille.	Piazzi. 1800.	B.A.C. 1850.	C.G.A. 1875.	Star's Name.	Mag.	Mean Date. 1800+	No. of Obs.	Mean R.A. 1890·0.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_α.	Corr. for μ_α to 1890·0.
									h m s	s	s	s	s
421	...	...	...	3730	Brisbane 546	8*	89·12	6	3 20 57·090	+ 2·5338	+ 0·002	...	...
422	1236	...	...	3780	Lacaille 1236	7·6	93·88	10	3 21 4·590	— 6·6049	+ 0·965	...	...
423	481	63	1068	...	2 Tauri... .....ξ	3·8	88·93	28	3 21 12·389	+ 3·2418	+ 0·012	+0·0032	+ 0·003
424	...	...	...	...	Lalande 6377	7·5†	91·48	6	3 21 31·408	+ 3·1066	+ 0·009	...	...
425	1101	69	1074	3744	Fornacis .....χ^1	6·2	86·80	2	3 21 40·880	+ 2·3154	+ 0·002	...	...
426	1103	...	...	3747	Lacaille 1103	7*	87·51	2	3 21 44·025	+ 2·3143	+ 0·002	...	...
427	1108	76	1082	3778	Fornacis .....χ^2	5·4	94·39	12	3 23 17·690	+ 2·3178	+ 0·002	...	...
428	1110	...	...	3786	Lacaille 1110	7·2	88·96	3	3 23 33·280	+ 2·1940	+ 0·002	...	...
429	1112	...	...	3790	Lacaille 1112	7·6	89·31	3	3 23 38·380	+ 2·1953	+ 0·002	...	...
430	486	77	1087	...	5 Tauri .....f	4·3	88·17	23	3 24 47·959	+ 3·3046	+ 0·013	—0·0002	0·000
431	1139	...	1094	3830	Lacaille 1139	5·9	91·16	5	3 25 5·660	+ 0·2498	+ 0·052	...	...
432*	487	80	1090	3818	17 Eridani.....	4·8	86·73	4	3 25 9·554	+ 2·9729	+ 0·007	—0·0006	— 0·002
433	...	...	...	...	Gilliss P.Z. 2091.....	8·9‡	91·46	2	3 25 20·407	—17·640	+ 4·640	...	...
434	...	82	...	...	Piazzi III. 82	7·3†	89·96	6	3 26 45·355	+ 3·3778	+ 0·015	...	...
435	1124	...	...	3862	Lacaille 1124	6·3*	95·69	3	3 27 11·410	+ 2·5604	+ 0·002	...	...
436†	1143	...	1103	3879	Reticuli .....κ	4·8	91·33	12	3 27 27·433	+ 0·9795	+ 0·022	+0·048	— 0·064
437	1128	...	...	3873	Lacaille 1128	7·4	87·05	22	3 27 42·153	+ 2·5820	+ 0·003	...	...
438*	493	89	1100	3872	18 Eridani .....ϵ	3·7	89·23	26	3 27 44·920	+ 2·8901	+ 0·005	—0·0675	— 0·052
439	492	...	1101	...	Bradley492(as one mass)	7·0†	93·97	6	3 28 47·372	+ 3·7150	+ 0·024	—0·0007	+ 0·003
440†	495	95	1104	3897	19 Eridani .....τ^5	4·2	89·07	11	3 28 55·730	+ 2·6455	+ 0·003	+0·0017	+ 0·002
441†	1144	...	1106	3912	Lacaille 1144	5·6	92·69	12	3 29 17·907	+ 1·7774	+ 0·005	+0·0020	— 0·005
442	1135	...	...	3913	Lacaille 1135	6·4*	94·61	11	3 29 30·140	+ 2·4249	+ 0·002	...	...
443	...	...	1105	...	Lalande 6613	6·7†	89·44	2	3 30 33·755	+ 4·0367	+ 0·035	...	...
444	1156	...	...	3963	Lacaille 1156	7·5	94·95	3	3 31 17·889	+ 1·5581	+ 0·009	...	...
445	1222	...	...	3979	Lacaille 1222	7½*	86·79	14	3 31 18·220	— 1·9336	+ 0·202	...	...
446	1178	...	...	3974	Lacaille 1178	7½*	90·46	6	3 31 43·337	+ 0·5474	+ 0·037	....	...
447†	1161	113	1125	4006	Eridani .....y	4·5	89·87	12	3 33 8·820	+ 2·1529	+ 0·002	—0·0028	0·000
448	1172	...	...	4012	Lacaille 1172	7½*	91·19	6	3 33 27·900	+ 1·6416	+ 0·007	...	...
449	502	109	1124	4008	21 Eridani.....	6·4*	89·96	6	3 33 35·293	+ 2·9601	+ 0·006	—0·0035	0·000
450	1160	...	...	4016	Lacaille 1160	7·5*	95·69	3	3 33 44·670	+ 2·4103	+ 0·002	...	...
451	...	...	...	...	W.B. (2) III. 686	7·0†	91·48	4	3 33 55·540	+ 3·6539	+ 0·021	...	...
452	...	...	...	4040	Brisbane 593	5·6	88·16	16	3 34 0·182	— 2·3152	+ 0·232	...	...
453	1163	114	1130	4022	Fornacis.....τ	5·8*	87·00	22	3 34 13·096	+ 2·4933	+ 0·002	...	...
454	...	...	...	...	Lalande 6739	7·0†	94·03	3	3 34 35·278	+ 3·6534	+ 0·021	...	...
455	499	106	1129	...	39 Persei .....δ	3·2	...	...	3 35 5	+ 4·2467	+ 0·042	+0·0012	...

421. Brisbane's S.P.D. evidently 1° too great.
432. v Eridani in C.G.A.

427, 436, 447. B.A.C. gives no letter.
453. B.A.C. assigns to Eridanus.

No.	Mean Date. 1800+	No. of Obs.	Mean Dec. 1890·0.	Sec. of Final Dec.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_δ.	Corr. for μ_δ to 1890·0.	Fallows and Henderson.	Johnson.	Cape Catalogues. 1840.	1850.	1860.	1880.	1885.	Melbourne, 1870 and 1880.
			° ′ ″	″	″	″	″	″								
421*	89·12	6	− 27 39 34·48	34·73	+ 12·826	− 0·29	...	...	...	...	...	...	...	1422	...	...
422	93·85	12	− 83 56 7·71	7·74	+ 12·818	+ 0·74	...	...	...	...	...	...	...	1437	...	172*
423	88·78	32	+ 9 20 55·70	55·44	+ 12·809	− 0·37	− 0·049	−0·06	...	...	333	...	...	1425	243	...
424	91·48	6	+ 1 53 46·10	45·84	+ 12·788	− 0·35	...	...	...	...	...	...	...	...	...	...
425	86·80	2	− 36 18 23·66	23·80	+ 12·777	− 0·27	...	...	...	...	335	511	...	1428	...	...
426	87·51	2	− 36 20 38·25	38·35	+ 12·773	− 0·27	...	...	...	...	336	513	...	1430	...	...
427*	94·39	12	− 36 3 50·49	50·61	+ 12·668	− 0·27	...	...	...	...	339	515	...	1440	245	...
428	88·96	3	− 40 15 46·14	46·43	+ 12·650	− 0·26	...	...	...	...	...	...	...	1443	...	...
429	89·31	3	− 40 12 53·73	54·03	+ 12·645	− 0·26	...	...	...	...	...	...	...	1444	...	...
430	88·29	28	+ 12 33 33·39	33·05	+ 12·565	− 0·38	+ 0·011	+0·02	57	...	342	518	...	1450	247	...
431	91·16	5	− 69 43 16·18	16·20	+ 12·545	− 0·03	...	...	...	...	347	522	...	1454	...	...
432*	86·97	5	− 5 27 9·49	9·66	+ 12·541	− 0·34	+ 0·002	+0·01	58	63	...	519	...	1453	248	198
433*	91·46	2	− 87 6 54·05	54·04	+ 12·529	+ 2·01	...	...	...	...	...	...	...	...	...	...
434	89·96	6	+ 16 13 41·91	41·50	+ 12·432	− 0·39	...	...	...	...	...	...	...	...	...	...
435	95·69	3	− 25 59 15·76	15·93	+ 12·401	− 0·30	...	...	...	...	...	...	...	1463	...	...
436*	91·33	12	− 63 19 30·55	30·59	+ 12·384	− 0·12	+ 0·35	−0·47	...	...	350	525	...	1468	...	...
437	87·04	24	− 24 59 22·40	22·49	+ 12·367	− 0·30	...	...	...	...	...	...	...	1466	...	...
438	89·55	33	− 9 49 51·43	51·70	+ 12·363	− 0·34	+ 0·011	0·00	...	64	348	524	...	1467	249	200
439†	93·97	6	+ 31 18 43·77	43·36	+ 12·292	− 0·43	− 0·03	+0·12	...	...	...	...	...	...	...	...
440	89·07	11	− 22 0 7·59	7·84	+ 12·281	− 0·31	− 0·023	−0·02	59	65	351	526	...	1471	250	...
441	92·69	12	− 50 45 7·33	7·44	+ 12·256	− 0·21	+ 0·067	−0·18	...	...	352	527	...	1474	...	...
442	94·64	12	− 31 27 5·36	5·52	+ 12·242	− 0·29	...	...	...	...	...	...	...	1477	...	...
443	90·96	6	+ 42 13 11·92	11·28	+ 12·168	− 0·47	...	...	...	...	...	...	...	...	...	...
444	94·95	3	− 54 52 44·85	44·98	+ 12·117	− 0·19	...	...	...	...	...	...	...	1492	...	...
445	87·24	26	− 77 59 15·19	15·27	+ 12·117	+ 0·22	...	...	...	...	...	...	...	1496	252	...
446	90·46	6	− 67 5 52·47	52·58	+ 12·088	− 0·07	...	...	...	...	...	...	...	1497	...	...
447*	89·87	12	− 40 38 8·91	9·14	+ 11·988	− 0·26	− 0·017	0·00	61	67	358	539	121	1508	...	179
448	91·19	6	− 53 8 26·45	26·68	+ 11·965	− 0·20	...	...	...	...	...	...	...	1512	...	...
449	89·96	6	− 5 58 44·87	45·20	+ 11·957	− 0·35	− 0·202	−0·01	...	...	...	538	...	1511	...	...
450	95·69	3	− 31 39 37·54	37·69	+ 11·945	− 0·29	...	...	...	...	...	...	...	1514	...	...
451	91·48	4	+ 28 25 1·99	1·61	+ 11·933	− 0·43	...	...	...	...	...	...	...	...	...	...
452	88·45	21	− 78 43 11·28	11·39	+ 11·928	+ 0·28	...	...	...	...	...	545	...	1521	...	181*
453*	87·00	22	− 28 18 10·71	10·78	+ 11·913	− 0·30	...	...	...	...	360	540	...	1518	...	...
454	94·03	3	+ 28 20 51·58	51·26	+ 11·887	− 0·43	...	...	...	...	...	...	...	...	...	...
455	93·75	12	+ 47 26 7·66	6·69	+ 11·852	− 0·50	− 0·037	+0·14	...	...	359	...	...	...	...	206

433. Magnitude from Cape observations. Observed only *S.P.*
439. $7^{m}\cdot8$, $7^{m}\cdot8$ $0''\cdot5$ $52°$ 1891·69. Angle diminishing. Observed as one mass.

No.	Bradley or Lacaille.	Piazzi. 1800.	B.A.C. 1850.	C.G.A. 1875.	Star's Name.	Mag.	Mean Date. 1800+	No. of Obs.	Mean R.A. 1890·0.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_α.	Corr. for μ_α to 1890·0.
									h m s	s	s	s	s
456	501	112	1132	...	40 Persei ..... *o*	5·0	92·31	6	3 35 24·257	+3·7899	+ 0·025	—0·0004	+ 0·001
457	...	...	...	4066	Lalande 6857	7¾*	89·92	1	3 36 27·050	+2·7893	+ 0·004	...	...
458	...	...	...	4074	Lalande 6868	6·8*	89·26	6	3 36 47·497	+2·7877	+ 0·004	...	...
459	...	123	1138	...	38 Persei (as one mass)... *o*	4·0	90·49	12	3 37 25·193	+3·7497	+ 0·024	—0·0016	+ 0·001
460	506	122	1139	...	41 Persei ..... *ν*	4·0	...	...	3 37 43	+4·0595	+ 0·034	—0·0015	...
461†	1191	142	1150	4101	Fornacis ..... *δ*	4·9	90·60	12	3 37 52·373	+2·3849	+ 0·002	—0·0033	+ 0·002
462*	515	134	1148	4100	23 Eridani ..... *δ*	3·7	88·05	21	3 37 58·752	+2·8780	+ 0·006	—0·0081	— 0·016
463	509	130	1147	...	17 Tauri.	3·8	93·72	11	3 38 20·572	+3·5522	+ 0·018	—0·0001	0·000
464	1196	...	...	4118	Lacaille 1196	7*	89·59	12	3 38 44·887	+2·4075	+ 0·002	...	...
465	1198	149	1159	4121	Eridani ..... *h*	4·4	87·25	4	3 38 45·455	+2·2305	+ 0·002	—0·006*	— 0·017
466	518	145	1158	4127	25 Eridani	5·7	91·83	6	3 39 19·035	+3·0602	+ 0·008	+0·0020	— 0·004
467	...	...	...	...	Lalande 6962	6·7†	90·82	6	3 40 17·185	+3·1966	+ 0·010	...	...
468	521	152	1166	...	25 Tauri ..... *η*	3·0	92·09	11	3 40 56·713	+3·5561	+ 0·018	—0·0004	+ 0·001
469	...	...	...	4173	C.G.A. 4173	7¾*	92·47	6	3 41 16·102	+1·0175	+ 0·020	...	...
470	1237	...	1185	4185	Lacaille 1237	6·2	94·91	3	3 41 45·739	+1·5222	+ 0·009	...	...
471	1221	...	...	4188	Lacaille 1221	7½*	87·04	4	3 42 1·860	+2·5422	+ 0·003	...	...
472	1223	...	...	4190	Lacaille 1223	7·7	87·02	3	3 42 3·730	+2·5541	+ 0·003	...	...
473*	530*	168	1181	4191	27 Eridani ..... τ^6	4·3	86·38	8	3 42 6·939	+2·5916	+ 0·003	—0·0132	— 0·048
474	529	159	1174	...	30 Tauri..... *e*	5·1	88·33	9	3 42 14·349	+3·2830	+ 0·012	—0·0005	— 0·001
475	527	157	1176	...	27 Tauri.....	3·8	90·01	11	3 42 37·247	+3·5575	+ 0·017	—0·0003	0·000
476†	1253	...	1197	4211	Reticuli ..... *β*	3·8	92·18	10	3 42 49·338	+0·6874	+ 0·029	+0·0464	— 0·101
477	1228	...	...	4205	Lacaille 1228	6·6	95·91	3	3 42 51·360	+2·4286	+ 0·003	...	...
478	1229	174	...	4207	Lacaille 1229	6·8	95·93	3	3 42 53·560	+2·4397	+ 0·003	...	...
479	532*	173	1191	4208	28 Eridani ..... τ^7	4·8	86·99	3	3 42 55·757	+2·5756	+ 0·003	+0·0014	+ 0·004
480	1231	...	...	4214	Lacaille 1231	6·8*	87·04	5	3 43 22·270	+2·5169	+ 0·003	...	...
481	1238	180	1196	4225	Lacaille 1238	6·7*	94·48	12	3 43 41·300	+2·2548	+ 0·002	...	...
482	1414	...	...	4304	Lacaille 1414	8·1	93·07	18	3 44 12·355	—9·8058	+ 1·443	...	...
483	1340	...	...	4272	Lacaille 1340	8½*	...	...	3 44 29	—4·0999	+ 0·406	...	...
484	1244	182	1199	4241	Eridani..... *pr. f*	5½*	90·94	6	3 44 32·098	+2·2065	+ 0·003	...	...
485	1244	183	1199	4242	Eridani .... *seq. f*	4¾*	89·97	6	3 44 32·353	+2·2065	+ 0·003	...	...
486	1295	...	...	4264	Lacaille 1295	7½*	93·93	6	3 44 57·011	—0·8950	+ 0·103	...	...
487	1247	...	...	4255	Lacaille 1247	7·0*	89·75	10	3 45 13·499	+2·2515	+ 0·003	...	...
488†	1248	189	1201	4256	Eridani ..... *g*	4·1	91·14	13	3 45 20·213	+2·2482	+ 0·003	—0·0053	+ 0·006
489	1266	...	...	4280	Lacaille 1266	7·3*	93·02	7	3 46 9·621	+1·4597	+ 0·010	...	...
490	534	185	1207	...	44 Persei ..... ζ	3·1	88·58	12	3 47 13·035	+3·7596	+ 0·022	—0·0003	0·000

461. B.A.C. assigns to Eridanus.
476, 484. B.A.C. gives no letter.
465. v^1 Eridani in B.A.C.
488. v^2 Eridani in B.A.C.
473. Fundamental star for Southern Zones.

No.	Mean Date 1800+	No. of Obs.	Mean Dec. 1890·0.	Sec. of Final Dec.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_δ.	Corr. for μ_δ to 1890·0.	Fallows and Henderson.	Johnson.	Cape Catalogues. 1840.	1850.	1860.	1880.	1885.	Melbourne, 1870 and 1880.
			° ′ ″	″	″	″	″	″								
456	92·31	6	+ 33 36 41·67	41·33	+ 11·829	− 0·45	− 0·003	+0·01	...	...	...	...	...	...	...	...
457	89·92	1	− 14 39 6·81	7·11	+ 11·755	− 0·33	...	...	...	...	...	...	...	...	...	...
458	89·26	6	− 14 42 56·35	56·66	+ 11·731	− 0·33	...	...	...	...	...	...	...	...	...	...
459†	90·49	12	+ 31 56 20·80	20·48	+ 11·686	− 0·45	− 0·010	0·00	...	...	...	...	...	...	254	...
460	93·25	12	+ 42 13 50·32	49·68	+ 11·665	− 0·49	− 0·012	+0·04	...	...	363	...	...	...	...	...
461*	90·60	12	− 32 17 24·24	24·50	+ 11·654	− 0·29	+ 0·001	0·00	...	69	368	549	124	1547	...	...
462	88·21	28	− 10 8 11·22	11·45	+ 11·646	− 0·35	+ 0·758	+1·36	62	68	367	548	...	1548	255	*208*
463	93·72	11	+ 23 46 1·23	0·85	+ 11·620	− 0·43	− 0·036	+0·13	...	...	365	547	123	1551	256	*209*
464	90·19	16	− 31 22 6·52	6·79	+ 11·591	− 0·29	...	...	...	...	...	...	...	1556	...	...
465*	87·25	4	− 37 39 39·40	39·46	+ 11·591	− 0·27	− 0·09*	−0·25	...	70	371	553	125	1557	257	...
466	91·83	6	− 0 38 35·94	36·22	+ 11·551	− 0·37	+ 0·012	−0·02	...	...	...	552	126	1561	...	...
467	90·82	6	+ 6 27 38·89	38·66	+ 11·482	− 0·39	...	...	...	...	...	...	...	...	...	...
468	91·92	12	+ 23 45 51·76	51·46	+ 11·434	− 0·43	− 0·040	+0·08	*155*	...	372	555	128	1571	260	184*
469	92·47	6	− 61 51 20·77	20·83	+ 11·411	− 0·13	...	...	...	...	...	...	...	1579	...	...
470	94·91	3	− 54 37 13·11	13·24	+ 11·376	− 0·19	...	...	...	...	377	564	...	1586	...	...
471	87·04	4	− 25 41 59·26	59·34	+ 11·356	− 0·31	...	...	...	...	...	...	...	1589	262	...
472	87·02	4	− 25 11 50·07	50·15	+ 11·353	− 0·31	...	...	...	...	...	...	...	1590	263	...
473*	86·33	9	− 23 34 28·15	28·24	+ 11·350	− 0·32	− 0·518	−1·90	64	72	375	561	...	1591	264	*213*
474	88·42	12	+ 10 48 15·86	15·49	+ 11·341	− 0·40	− 0·021	−0·03	63	...	373	559	...	...	...	...
475	90·01	11	+ 23 42 59·66	59·24	+ 11·314	− 0·43	− 0·047	0·00	...	...	...	...	129	...	...	*215*
476*	92·18	10	− 65 9 10·83	10·92	+ 11·299	− 0·09	+ 0·057	−0·12	...	74	381	569	130	1599	...	188
477	95·91	3	− 30 14 24·00	24·26	+ 11·296	− 0·30	...	...	...	...	...	...	...	1596	...	...
478	95·93	3	− 29 48 25·82	26·09	+ 11·293	− 0·30	...	...	...	...	...	...	...	1597	...	...
479	86·99	4	− 24 12 56·96	57·04	+ 11·291	− 0·32	+ 0·049	+0·15	...	73	378	565	...	1598	265	...
480	87·04	6	− 26 40 3·11	3·18	+ 11·259	− 0·31	...	...	...	...	...	...	...	1600	266	...
481	94·48	12	− 36 26 41·57	41·69	+ 11·236	− 0·28	...	...	...	...	380	568	...	1604	...	...
482	91·22	27	− 85 4 41·49	41·55	+ 11·199	+ 1·18	...	...	...	...	...	...	...	1630	269	...
483	94·77	12	− 81 12 13·26	13·31	+ 11·178	+ 0·49	...	...	...	...	...	...	...	1621	...	...
484*	90·94	6	− 37 57 30·86	31·07	+ 11·175	− 0·27	...	...	..	...	383	...	...	1611	...	189
485	90·36	5	− 37 57 24·12	24·35	+ 11·175	− 0·27	...	...	65	75	382	571	132	1612	...	190
486	93·93	6	− 74 21 3·96	3·98	+ 11·145	+ 0·10	...	...	...	...	...	...	...	1619	...	...
487	89·64	12	− 36 25 39·79	40·06	+ 11·124	− 0·28	...	...	...	...	...	...	...	1615	...	...
488*	91·14	13	− 36 32 1·36	1·54	+ 11·117	− 0·28	− 0·052	+0·06	...	76	384	573	134	1616	270	191*
489	93·02	7	− 55 20 8·89	8·93	+ 11·056	− 0·18	...	...	...	...	...	...	...	1631	...	...
490	88·58	12	+ 31 33 22·64	22·20	+ 10·979	− 0·46	− 0·002	0·00	...	...	...	...	...	...	...	...

459. $4^m{\cdot}0$, $8^m{\cdot}7$ $1''{\cdot}0$ 59°. Observed as one mass.

No.	Bradley or Lacaille.	Piazzi. 1800.	B.A.C. 1850.	C.G.A. 1875.	Star's Name.	Mag.	Mean Date. 1800+	No. of Obs.	Mean R.A. 1890·0.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_a.	Corr. for μ_a to 1890·0.
									h m s	s	s	s	s
491	...	...	...	...	Lalande 7203	7·5†	89·00	6	3 48 25·273	+ 3·3409	+ 0·012	...	...
492	...	...	...	...	B.D. + 18° No. 557 ...	8·0†	93·97	3	3 48 45·969	+ 3·4434	+ 0·014	...	...
493†	1322	...	1230	4353	Hydri .....γ	3·1	87·82	11	3 48 56·855	— 1·0022	+ 0·106	+0·0084	+ 0·018
494	543*	198	1217	4336	33 Eridani .....τ^8	4·7	87·00	19	3 49 1·799	+ 2·5496	+ 0·003	+0·0012	+ 0·004
495	1275	202	1220	4346	Eridani i	5·1	87·65	6	3 49 27·457	+ 2·2825	+ 0·003	...	...
496	...	...	...	4357	Lalande 7273	6·1*	90·17	6	3 50 5·763	+ 2·8241	+ 0·005	...	...
497	...	...	...	...	C.Z. III. 1527	8½*	94·92	3	3 50 16·299	+ 1·4954	+ 0·009	...	...
498	539	196	1219	...	45 Persei .....ε	3·0	87·75	4	3 50 28·277	+ 4·0095	+ 0·029	+0·0004	+ 0·001
499	...	...	...	...	W.B. (2) III. 1059.....	8·5†	94·00	3	3 50 41·262	+ 3·4509	+ 0·014	...	...
500	...	...	...	...	B.D. + 18° No. 565	9·5†	93·98	3	3 51 28·516	+ 3·4538	+ 0·014	...	...
501†	1304	...	1233	4395	Lacaille 1304	6·3	92·48	12	3 51 40·642	+ 1·5687	+ 0·008	0·000	0·000
502	542	201	1228	...	46 Persei .....ξ	4·1	91·42	12	3 51 49·641	+ 3·8800	+ 0·025	—0·0006	+ 0·001
503*	546	210	1234	4407	34 Eridani .....γ	3·1	89·50	30	3 52 53·804	+ 2·7929	+ 0·005	+0·0029	+ 0·001
504	548	218	1241	...	35 Tauri .....λ	Var.	89·96	24	3 54 35·117	+ 3·3189	+ 0·011	—0·0014	0·000
505†	551*	221	1243	4447	36 Eridani .....τ^9	4·6	87·17	24	3 55 14·096	+ 2·5555	+ 0·003	—0·0008	— 0·002
506	1330	...	1255	4476	Lacaille 1330	6·4*	92·97	12	3 56 21·183	+ 1·2780	+ 0·012	0·000*	0·000
507†	1338	...	1259	4487	Reticuli .....δ	4·3	88·93	12	3 57 0·213	+ 0·9377	+ 0·020	—0·0028	— 0·003
508	1333	...	...	4490	Lacaille 1333	7¾*	94·90	3	3 57 12·589	+ 1·4626	+ 0·009	...	...
509*	553	228	1251	...	38 Tauri .....ν	4·0	90·14	14	3 57 18·261	+ 3·1869	+ 0·009	+0·0001	0·000
510	554	232	1257	...	37 Tauri .....A	4·5	87·85	13	3 58 11·446	+ 3·5330	+ 0·015	+0·0053	+ 0·011
511	1349	...	...	4521	Lacaille 1349	7*	95·89	3	3 58 20·547	+ 0·8856	+ 0·021	...	...
512	1341	...	...	4567	Lacaille 1341	8*	89·48	6	4 0 29·457	+ 2·3891	+ 0·003	...	...
513	557	240	1266	...	48 Persei c	4·3	89·00	3	4 0 40·440	+ 4·3345	+ 0·036	+0·0020	+ 0·002
514†	1344	251	1273	4580	Lacaille 1344	5·5	89·42	13	4 1 5·395	+ 2·4564	+ 0·003	+0·0134	+ 0·008
515	562	252	1274	...	43 Tauri.....	5·8	93·97	3	4 2 45·449	+ 3·4811	+ 0·014	+0·0061	— 0·024
516	1592	...	...	4672	Lacaille1592(as one mass)	6·4	94·98	22	4 2 54·233	—12·035	+ 1·686	...	...
517	1366	...	...	4621	Lacaille 1366	6·9*	88·99	7	4 3 37·330	+ 2·1808	+ 0·003	...	...
518	1370	...	...	4651	Lacaille 1370	7½*	95·89	3	4 5 21·470	+ 2·5172	+ 0·003	...	...
519*	568	11	1290	4668	38 Eridani .....e^1	4·1	88·71	24	4 6 29·734	+ 2·9255	+ 0·006	—0·0006	— 0·001
520	564	1	1287	...	51 Persei.....μ	4·2	...	...	4 6 49	+ 4·3858	+ 0·036	—0·0009	...
521	...	...	...	...	Lalande 7832	6·2†	89·53	4	4 7 34·105	+ 3·9697	+ 0·024	...	...
522	1444	...	1319	4723	Lacaille 1444	6·8*	87·12	10	4 7 39·127	— 2·9543	+ 0·220	...	...
523	...	...	...	4748	Lalande 7982	6·9*	89·56	7	4 10 0·849	+ 2·7222	+ 0·004	...	...
524	578	29	1309	4751	40 Eridani .....o^2	4·5	88·50	12	4 10 12·793	+ 2·9095	+ 0·006	—0·1442	— 0·216
525†	1398	34	1315	4757	Horologii .....α	3·8	90·68	12	4 10 21·377	+ 1·9826	+ 0·004	+0·0007	0·000

495. ν^3 Eridani in B.A.C.
515. ω^1 Tauri in B.A.C.

510. A^1 Tauri in B.A.C.
524. *d* Eridani in B.F.

No.	Mean Date. 1800+	No. of Obs.	Mean Dec. 1890·0.	Sec. of Final Dec.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_δ.	Corr. for μ_δ to 1890·0.	Fallows and Henderson.	Johnson.	Cape Catalogues. 1840.	1850.	1860.	1880.	1885.	Melbourne, 1870 and 1880.
			° ′ ″	″	″	″	″	″								
491	89·00	6	+ 13 26 49·47	49·04	+ 10·891	− 0·41	...	...	...	...	...	...	...	...	...	...
492	93·97	3	+ 18 15 58·06	57·84	+ 10·865	− 0·43	...	...	...	...	...	...	...	...	...	...
493	87·82	11	− 74 34 34·05	34·06	+ 10·852	+ 0·12	+ 0·102	+0·22	68*	79	393	590	138	1656	273	194*
494	87·00	22	− 24 56 17·16	17·23	+ 10·846	− 0·32	− 0·006	−0·02	...	...	386	581	135	1649	272	...
495*	87·71	7	− 35 3 28·16	28·32	+ 10·815	− 0·28	...	...	...	78	388	583	136	1655	274	*218*
496	90·17	6	− 12 25 15·69	16·04	+ 10·767	− 0·35	...	...	...	...	...	...	...	...	275	...
497	94·92	3	− 54 25 54·10	54·24	+ 10·755	− 0·19	...	...	...	...	...	...	...	...	...	...
498	90·92	12	+ 39 41 29·44	28·89	+ 10·740	− 0·50	− 0·016	+0·01	...	...	387	...	...	...	276	...
499	94·00	4	+ 18 31 11·97	11·74	+ 10·724	− 0·43	...	...	...	...	...	...	...	...	...	...
500	93·98	3	+ 18 36 57·94	57·72	+ 10·665	− 0·43	...	...	...	...	...	...	...	...	...	...
501	92·26	11	− 53 0 40·57	40·72	+ 10·650	− 0·20	− 0·06	+0·14	...	...	394	593	...	1680	...	*221*
502	91·42	12	+ 35 28 27·07	26·60	+ 10·639	− 0·48	− 0·013	+0·02	...	...	...	...	...	...	277	...
503	90·02	46	− 13 49 18·47	18·72	+ 10·560	− 0·35	− 0·106	0·00	69*	80	395	594	139	1683	279	195*
504*	90·08	27	+ 12 10 44·52	44·24	+ 10·434	− 0·42	− 0·009	0·00	70	...	...	596	...	...	281	...
505	87·17	24	− 24 19 42·98	43·08	+ 10·385	− 0·32	+ 0·013	+0·04	...	81	397	597	...	1693	...	...
506	92·97	12	− 57 24 53·03	53·13	+ 10·302	− 0·17	− 0·07*	+0·21	...	...	403	603	...	1700	...	...
507	88·93	12	− 61 42 39·46	39·61	+ 10·253	− 0·12	− 0·024	−0·03	72	83	405	605	141	1704	...	199
508	94·90	3	− 54 28 18·49	18·64	+ 10·238	− 0·19	...	...	...	...	...	...	...	1705	...	...
509	88·61	18	+ 5 41 1·27	0·97	+ 10·230	− 0·40	− 0·009	−0·01	...	...	...	...	...	1703	282	*224*
510*	87·85	13	+ 21 46 51·45	51·07	+ 10·163	− 0·45	− 0·058	−0·12	...	...	402	...	140	1713	...	*226*
511	95·89	3	− 62 12 10·25	10·41	+ 10·151	− 0·12	...	...	...	...	...	...	...	1718	...	...
512	89·48	6	− 30 31 20·51	20·77	+ 9·990	− 0·31	...	...	...	...	...	...	...	1737	...	...
513	90·93	15	+ 47 25 6·64	5·65	+ 9·976	− 0·55	− 0·033	+0·03	...	...	...	...	...	...	...	...
514	89·42	13	− 27 57 11·88	12·15	+ 9·944	− 0·32	+ 0·104	+0·06	...	...	410	610	...	1744	...	...
515*	93·97	4	+ 19 19 3·91	3·69	+ 9·817	− 0·45	− 0·033	+0·13	...	...	...	...	...	...	...	...
516†	90·50	62	− 85 35 10·60	10·61	+ 9·805	+ 1·53	...	...	...	...	...	...	...	1768	284	*230*
517	88·99	7	− 37 21 18·21	18·50	+ 9·751	− 0·28	...	...	...	...	...	...	...	1757	...	...
518	95·89	3	− 25 19 50·38	50·64	+ 9·617	− 0·33	...	...	...	...	...	...	...	1769	...	...
519	88·68	34	− 7 7 29·56	29·80	+ 9·530	− 0·38	+ 0·085	+0·11	75	85	...	616	145	1774	286	203*
520	91·03	7	+ 48 7 45·75	44·58	+ 9·505	− 0·57	− 0·027	+0·03	...	...	...	...	...	1776	...	...
521	89·82	5	+ 37 15 47·24	46·52	+ 9·448	− 0·51	...	...	...	...	...	...	...	...	...	...
522	87·23	21	− 78 55 38·50	38·52	+ 9·441	+ 0·38	...	...	...	...	420	628	...	1785	287	...
523	89·56	7	− 16 27 24·09	24·47	+ 9·258	− 0·36	...	...	...	...	...	...	...	...	...	...
524*	88·50	12	− 7 49 22·97	23·27	+ 9·243	− 0·38	− 3·442	−5·16	...	87	...	623	...	1801	290	...
525	90·68	12	− 42 33 57·19	57·34	+ 9·232	− 0·26	− 0·226	+0·15	77	88	418	626	148	1802	...	208

504. Limits of magnitude, 3·4–4·2. Period ($3^d.\ 22^h.\ 52^m.2$) *Algol* type. Periodical inequalities.
516. $6^m.7$, $7^m.9$ $1''.7$ 245°. Observed as one mass.

No.	Bradley or Lacaille.	Piazzi. 1800.	B.A.C. 1850.	C.G.A. 1875.	Star's Name.	Mag.	Mean Date. 1800+	No. of Obs.	Mean R.A. 1890·0.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_α.	Corr. for μ_α to 1890·0.
									h m s	s	s	s	s
526	...	...	1305	...	Lalande 7922	6·4†	87·04	1	4 10 31·079	+ 4·1366	+ 0·028	...	...
527	...	...	...	...	Lalande 7962	7·8†	93·97	3	4 10 36·479	+ 3·4908	+ 0·013	...	...
528	...	...	...	4790	Lalande 8048	6·1	89·50	6	4 11 56·555	+ 2·9317	+ 0·006	...	...
529	580	36	1321	...	53 Tauri.....	5·5	87·98	4	4 12 57·098	+ 3·5278	+ 0·014	—0·0002	0·000
530†	1423	...	1336	4812	Reticuli .....α	3·4	91·96	12	4 13 0·488	+ 0·7547	+ 0·021	+0·0036	— 0·007
531	...	...	...	...	W.B. (2) IV. 225.....	8·2†	93·97	3	4 13 4·439	+ 3·4996	+ 0·013	...	...
532†	1417	...	1331	4811	Doradûs .....γ	4·3	91·72	12	4 13 8·679	+ 1·5569	+ 0·007	+0·0074	— 0·013
533	579	35	1322	...	54 Persei	5·1	90·56	13	4 13 16·029	+ 3·8874	+ 0·021	—0·0031	+ 0·002
534	583	39	1328	...	54 Tauri .....γ	3·9	88·50	16	4 13 31·961	+ 3·4008	+ 0·012	+0·0073	+ 0·011
535†	590*	50	1333	4821	41 Eridani .....ν^4	3·8	93·31	6	4 13 43·858	+ 2·2640	+ 0·003	+0·0028	— 0·009
536	1428	...	1344	4840	Reticuli .....ε	4·4	93·79	6	4 14 35·102	+ 1·0334	+ 0·015	—0·011†	+ 0·042
537	1430	...	1345	4845	Lacaille 1430 (as one mass)	6·4	92·01	6	4 14 41·311	+ 0·8914	+ 0·018	...	...
538*	...	...	...	4858	Lalande 8205	5·3	94·13	11	4 15 51·105	+ 2·6137	+ 0·004	—0·002	+ 0·008
539	1445	...	...	4870	Lacaille 1445	8¼*	92·86	6	4 15 53·249	+ 0·3513	+ 0·031	...	...
540	594	57	1346	...	61 Tauri .....δ	4·0	88·10	10	4 16 35·418	+ 3·4468	+ 0·012	+0·0066	+ 0·013
541	1440	...	...	4906	Lacaille 1440	7¾*	94·05	6	4 18 2·950	+ 1·5659	+ 0·007	...	...
542	599	70	1362	...	65 Tauri .....κ	4·6	88·00	3	4 18 48·797	+ 3·5619	+ 0·014	+0·0040	+ 0·008
543	600	71	1363	...	67 Tauri.....	5·5	88·01	1	4 18 51·730	+ 3·5596	+ 0·013	+0·0086	+ 0·017
544†	1441	85	1372	4940	43 Eridani .....d	3·9	88·67	12	4 19 54·293	+ 2·2471	+ 0·003	+0·0037	+ 0·005
545	...	...	...	...	Lalande 8345	7·5†	92·51	6	4 20 5·223	+ 3·0373	+ 0·007	...	...
546†	1473	...	1383	4962	Reticuli .....η	5·2	93·60	12	4 20 42·022	+ 0·6232	+ 0·023	+0·0109	— 0·039
547	609	87	1376	...	74 Tauri .....ε	3·7	88·74	23	4 22 11·569	+ 3·4900	+ 0·012	+0·0070	+ 0·009
548†	1579	...	1426	5090	Mensæ.....δ	5·6	87·79	21	4 25 25·780	— 4·2229	+ 0·277	+0·0058	+ 0·013
549	618	104	1398	...	57 Persei.....m	6·5†	89·02	7	4 25 40·506	+ 4·2082	+ 0·026	—0·0004	0·000
550†	1512	129	1413	5106	Cæli.....δ	5·3	88·26	12	4 27 27·944	+ 1·8350	+ 0·005	—0·0024	— 0·004
551	...	...	...	...	Lalande 8545	7·0†	...	...	4 27 50	+ 4·3021	+ 0·027	...	...
552	630	125	1420	...	87 Tauri .....α	1·0	90·43	23	4 29 36·474	+ 3·4331	+ 0·010	+0·0035	— 0·001
553	1639	...	1454	5219	Mensæ .....ν	5·8	92·65	12	4 30 44·436	— 5·5403	+ 0·374	0·000*	0·000
554*	637	133	1429	5172	48 Eridani .....ν	4·1	89·09	22	4 30 49·350	+ 2·9952	+ 0·006	—0·0023	— 0·002
555†	645*	144	1433	5187	52 Eridani .....ν^2	3·8	89·12	12	4 31 16·438	+ 2·3350	+ 0·003	—0·0065	— 0·006
556†	1539	...	1438	5198	Doradûs .....α	3·5	90·96	13	4 31 37·140	+ 1·2855	+ 0·010	+0·0041	— 0·004
557	1839	...	...	5292	Lacaille 1839	7·9	91·78	26	4 31 59·020	—17·262	+ 2·262	...	...
558	...	...	...	...	Lalande 8726	6·3†	93·21	6	4 32 40·699	+ 3·6511	+ 0·013	...	...
559	1718	...	...	5274	Lacaille 1718	7·1	91·21	7	4 32 44·788	— 9·6573	+ 0·842	...	...
560	...	...	...	...	W.B. IV. 677	8·8†	87·10	2	4 33 2·550	+ 3·0592	+ 0·006	...	...

535. X Eridani in C.G.A.
542. κ^1 Tauri in B.A.C.
553. B.A.C. gives no letter.

538. Fundamental star for Southern Zones.
543. κ^2 Tauri in B.A.C.
555. ν^7 Eridani in B.A.C.

540. δ^1 Tauri in B.A.C.
544. ν^5 Eridani in B.A.C.

No.	Mean Date. 1800+	No. of Obs.	Mean Dec. 1890·0.	Sec. of Final Dec.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_δ.	Corr. for μ_δ to 1890·0.	Fallows and Henderson.	Johnson.	Cape Catalogues. 1840.	1850.	1860.	1880.	1885.	Melbourne, 1870 and 1880.
			° ′ ″	″	″	″	″	″								
526	90·02	4	+ 41 52 10·44	9·72	+ 9·219	− 0·54	...	...	...	...	...	...	...	...	...	...
527	93·97	3	+ 19 24 17·69	17·46	+ 9·213	− 0·46	...	...	...	...	...	...	...	...	...	...
528	89·50	6	− 6 44 37·44	37·79	+ 9·108	− 0·38	...	...	...	...	...	...	...	...	...	...
529	88·05	5	+ 20 52 33·40	33·04	+ 9·030	− 0·46	− 0·038	−0·07	...	...	...	...	...	...	...	...
530	91·96	12	− 62 44 57·65	57·71	+ 9·025	− 0·10	+ 0·047	−0·09	80*	91	424	635	152	1818	...	210
531	93·97	3	+ 19 40 48·80	48·56	+ 9·021	− 0·46	...	...	...	...	...	...	...	...	...	...
532	91·72	12	− 51 45 50·94	51·08	+ 9·014	− 0·21	+ 0·161	−0·28	...	90	422	632	150	1817	...	209
533	90·56	13	+ 34 18 1·78	1·26	+ 9·005	− 0·51	+ 0·001	0·00	...	...	...	...	...	...	...	...
534	89·41	29	+ 15 21 41·19	40·90	+ 8·984	− 0·45	− 0·030	−0·02	79	...	421	631	...	1819	292	*234*
535*	93·31	6	− 34 4 1·88	2·02	+ 8·969	− 0·30	0·000	0·00	...	89	423	634	151	1822	293	...
536*	93·79	6	− 59 34 0·30	0·34	+ 8·902	− 0·14	− 0·17†	+0·64	...	92	428	637	...	1828	...	212
537†	92·01	6	− 61 13 7·51	7·66	+ 8·894	− 0·12	...	...	...	...	429	638	...	1830	...	213
538*	94·13	10	− 20 54 8·57	8·76	+ 8·803	− 0·35	+ 0·03	−0·12	...	...	...	...	...	...	296	*236*
539	92·86	6	− 66 10 47·74	47·90	+ 8·800	− 0·05	...	...	...	...	...	...	...	1844	...	...
540*	87·80	10	+ 17 17 2·55	2·20	+ 8·745	− 0·46	− 0·025	−0·06	...	...	427	...	...	...	298	...
541	94·05	6	− 51 18 17·78	17·82	+ 8·629	− 0·21	...	...	...	...	...	...	...	1856	...	...
542*	87·62	5	+ 22 2 29·85	29·53	+ 8·569	− 0·47	− 0·054	−0·13	...	...	...	...	157	...	...	...
543*	88·01	1	+ 21 56 52·78	52·41	+ 8·565	− 0·47	− 0·051	−0·10	...	...	...	...	...	...	...	...
544*	88·67	12	− 34 16 21·55	21·75	+ 8·483	− 0·30	+ 0·050	+0·07	81	94	437	647	159	1866	...	...
545	92·51	6	− 1 39 43·89	44·10	+ 8·468	− 0·41	...	...	...	...	...	...	...	...	...	...
546	93·60	12	− 63 38 50·55	50·58	+ 8·419	− 0·09	+ 0·143	−0·51	84	95	440	651	160	1876	...	219
547	88·48	25	+ 18 56 9·42	9·13	+ 8·300	− 0·47	− 0·028	−0·04	...	...	439	650	161	1884	301	220*
548	87·58	39	− 80 28 14·86	14·89	+ 8·042	+ 0·56	+ 0·086	+0·20	...	...	457	671	163	1929	306	225*
549	89·62	10	+ 42 49 42·58	41·76	+ 8·022	− 0·56	− 0·005	0·00	...	...	...	...	...	...	...	...
550	88·09	14	− 45 11 24·51	24·66	+ 7·878	− 0·25	− 0·021	−0·04	85	96	453	664	162	1947	...	226
551	91·06	6	+ 44 59 6·00	5·03	+ 7·849	− 0·58	...	...	...	...	...	...	...	...	...	...
552	90·13	23	+ 16 17 15·12	14·78	+ 7·705	− 0·46	− 0·184	+0·02	87*	...	454	668	164	1962	310	227*
553*	92·97	12	− 81 49 42·34	42·34	+ 7·613	+ 0·74	+ 0·10*	−0·30	...	...	471	686	169	1985	...	231*
554	88·52	29	− 3 34 40·17	40·42	+ 7·608	− 0·41	+ 0·009	+0·01	...	98	...	673	...	1979	312	*244*
555*	89·03	13	− 30 47 16·43	16·69	+ 7·571	− 0·32	0·000	0·00	88*	99	459	675	166	1981	...	...
556	90·96	13	− 55 16 21·13	21·28	+ 7·543	− 0·18	− 0·010	+0·01	89*	100	460	677	168	1983	...	229*
557	90·45	36	− 86 30 43·03	43·06	+ 7·513	+ 2·33	...	...	...	...	...	...	...	2006	315	...
558	93·21	6	+ 24 59 56·25	55·84	+ 7·458	− 0·50	...	...	...	...	...	...	...	...	...	...
559	90·92	8	− 84 25 52·87	52·87	+ 7·451	+ 1·31	...	...	...	...	...	...	...	2004	...	...
560	87·09	4	− 0 36 58·80	58·94	+ 7·428	− 0·42	...	...	...	...	...	...	...	...	...	...

536. Proper Motion from *Cincinnati Publications*, No. 12.

537. $6^m·6$, $8^m·1$ $0''·9 \pm$ 339° 1897·3. Observed as one mass.

No.	Bradley or Lacaille.	Piazzi. 1800.	B.A.C. 1850.	C.G.A. 1875.	Star's Name.	Mag.	Mean Date. 1800+	No. of Obs.	Mean R.A. 1890·0.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_a.	Corr. for μ_a to 1890·0.
									h m s	s	s	s	s
561	1546	...	...	5233	Lacaille 1456	8·1	93·28	6	4 33 5·082	+1·2912	+ 0·010	...	...
562*	647	150	1441	5226	53 Eridani.....	3·9	87·90	10	4 33 8·589	+2·7509	+ 0·004	—0·0077	— 0·016
563	...	...	...	...	Lalande 8782	7·7†	87·08	4	4 33 13·230	+2·6941	+ 0·004	...	...
564	...	...	...	...	Lalande 8755	7·2†	94·64	6	4 33 48·539	+3·7926	+ 0·015	...	...
565†	1544	167	1450	5271	Lacaille 1544	5·8	91·10	12	4 35 32·298	+2·4990	+ 0·003	—0·0061	+ 0·007
566	648	159	1449	...	94 Tauri .....τ	4·4	91·67	9	4 35 38·541	+3·5954	+ 0·012	—0·0010	+ 0·002
567	1707	...	1481	5310	Lacaille 1707	6·8	91·70	51	4 35 41·404	—7·2896	+ 0·524	—0·018†	+ 0·030
568	1608	...	...	5294	Lacaille 1608	6·9*	89·54	13	4 36 14·867	—1·1243	+ 0·070	...	...
569	1558	...	1455	5285	Lacaille 1558	6·7*	94·96	3	4 36 20·739	+1·4808	+ 0·007	...	...
570	...	...	...	5281	Lalande 8880	6·8*	94·94	6	4 36 34·810	+2·7912	+ 0·004	...	...
571†	1556	175	1458	5295	Cæli .....α	4·6	90·31	10	4 37 1·065	+1·9439	+ 0·004	—0·0146	+ 0·005
572	...	179	1468	...	Piazzi IV. 179	6·5†	89·91	7	4 39 51·469	+3·4936	+ 0·010	+0·005	0·000
573	...	...	...	...	Lalande 8901	7·0†	...	...	4 39 54	+4·3413	+ 0·024	...	...
574*	657	183	1469	5341	57 Eridani .....μ	4·3	87·82	11	4 40 0·140	+2·9966	+ 0·006	—0·0002	0·000
575	...	189	...	...	Piazzi IV. 189	7·3†	89·91	11	4 41 25·934	+3·1957	+ 0·007	...	...
576	1580	...	...	5380	Lacaille 1580	8*	88·76	7	4 41 31·707	+2·4756	+ 0·003	...	...
577	...	...	...	...	Lalande 9008	8·0†	93·97	3	4 42 11·790	+3·5594	+ 0·011	...	...
578	...	...	...	...	Lalande 9004	7·2†	91·05	6	4 42 22·870	+3·7473	+ 0·013	...	...
579†	1614	...	1489	5418	Doradûs .....κ	5·4	89·95	12	4 42 41·556	+0·8932	+ 0·014	—0·001	0·000
580	1676	...	...	5453	Lacaille 1676	6·4*	91·14	11	4 43 21·643	—2·7994	+ 0·137	...	...
581	663	201	1486	...	1 Orionis .....π^3	3·3	89·22	9	4 43 52·091	+3·2225	+ 0·007	+0·0298	+ 0·023
582†	1654	...	1502	5456	Mensæ .....μ	5·8	92·13	12	4 44 9·920	—0·6272	+ 0·048	—0·001	+ 0·002
583	...	...	...	5444	C.G.A. 5444	8*	91·53	6	4 44 19·170	+1·7262	+ 0·005	...	...
584	666	208	1493	...	97 Tauri i	5·1	89·96	12	4 44 56·337	+3·4998	+ 0·010	+0·0047	0·000
585*	670	213	1495	...	3 Orionis .....π^4	4·0	86·09	4	4 45 20·890	+3·1925	+ 0·007	—0·0011	— 0·004
586	1618	...	...	5477	Lacaille 1618	7·2*	91·03	9	4 45 40·732	+1·9083	+ 0·004	...	...
587	...	...	...	5549	Lalande 9234	6·9*	88·46	7	4 48 27·739	+2·5853	+ 0·003	...	...
588*	680	232	1514	...	8 Orionis .....π^5	3·9	90·00	22	4 48 31·266	+3·1227	+ 0·006	—0·0004	0·000
589	679	234	1516	...	7 Orionis .....π^1	4·8	87·89	7	4 48 50·446	+3·2964	+ 0·007	+0·0019	+ 0·004
590	...	239	1519	...	Piazzi IV. 239	5·8	89·42	8	4 49 11·770	+3·0789	+ 0·006	...	...
591	677	235	1520	...	3 Aurigæ .....ι	2·7	89·25	12	4 49 49·771	+3·9000	+ 0·014	+0·0006	0·000
592	...	...	...	...	Lalande 9254	7·7†	90·18	8	4 51 1·588	+3·8083	+ 0·013	...	...
593	685	247	1528	...	98 Tauri .....k	5·7	89·04	6	4 51 25·440	+3·6649	+ 0·011	+0·0011	+ 0·001
594	1687	...	...	5626	Lacaille 1687	6·9*	90·20	8	4 51 34·480	—0·1304	+ 0·031	...	...
595	1816	...	...	5685	Lacaille 1816	7·5	92·15	9	4 51 49·342	—8·5005	+ 0·528	...	...

581. π^1 Orionis in B.A.C.

582. B.A.C. gives no letter.

585. π^3 Orionis in B.A.C.

589. π^4 Orionis in B.A.C.

No.	Mean Date. 1800+	No. of Obs.	Mean Dec. 1890·0.	Sec. of Final Dec.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_δ.	Corr. for μ_δ to 1890·0.	Fallows and Henderson.	Johnson.	Cape Catalogues. 1840.	1850.	1860.	1880.	1885.	Melbourne, 1870 and 1880.
			° ′ ″	″	″	″	″	″								
561	93·28	6	— 55 7 0·61	0·72	+ 7·424	— 0·18	...	...	...	...	...	...	...	1994	...	...
562	87·71	14	— 14 31 9·57	9·76	+ 7·420	— 0·38	— 0·162	—0·37	...	101	...	680	...	1993	314	*247*
563	87·08	4	— 16 56 43·89	43·99	+ 7·413	— 0·37	...	...	...	...	...	...	...	...	...	...
564	94·64	6	+ 30 4 36·11	35·70	+ 7·366	— 0·52	...	...	...	...	...	...	...	...	...	...
565	91·10	12	— 24 41 52·29	52·50	+ 7·224	— 0·34	+ 0·013	—0·01	...	...	466	684	...	2008	...	...
566	90·64	11	+ 22 44 42·78	42·46	+ 7·216	— 0·49	— 0·009	+0·01	...	...	465	683	170	2007	316	*248*
567*	90·67	115	— 83 8 8·06	8·18	+ 7·212	+ 0·99	+ 0·015†	—0·01	...	...	487	702	...	2019	318	236*
568	89·54	13	— 73 25 54·77	54·87	+ 7·166	+ 0·15	...	...	...	...	477	...	...	2015	...	...
569	94·96	3	— 51 53 18·91	19·05	+ 7·158	— 0·21	...	...	...	...	468	687	...	2013	...	...
570	94·94	6	— 12 41 16·35	16·58	+ 7·139	— 0·38	...	...	...	...	...	...	...	...	...	...
571	90·31	10	— 42 4 26·88	27·02	+ 7·103	— 0·27	— 0·083	+0·03	90	103	470	688	171	2017	...	233
572	89·88	6	+ 18 32 6·74	6·26	+ 6·871	— 0·48	— 0·06	—0·01	...	...	...	...	...	...	...	...
573	92·02	6	+ 45 17 26·91	26·11	+ 6·867	— 0·60	...	...	...	...	...	...	...	...	...	...
574	88·54	24	— 3 27 24·40	24·66	+ 6·859	— 0·41	— 0·002	0·00	...	105	...	695	...	2047	321	*251*
575	89·67	12	+ 5 35 24·70	24·37	+ 6·741	— 0·44	...	...	...	...	...	...	...	...	...	...
576	88·76	7	— 25 21 37·47	37·73	+ 6·732	— 0·34	...	...	...	...	...	...	...	2062	...	...
577	93·97	3	+ 21 7 13·93	13·68	+ 6·677	— 0·49	...	...	...	...	...	...	...	...	...	...
578	91·05	6	+ 28 9 22·38	21·79	+ 6·662	— 0·52	...	...	...	...	...	...	...	...	...	...
579	89·95	12	— 59 56 4·08	4·17	+ 6·637	— 0·13	+ 0·04	0·00	...	...	488	707	...	2075	...	...
580	92·05	13	— 77 51 47·02	47·13	+ 6·581	+ 0·38	...	...	...	...	...	...	...	2083	...	...
581*	88·75	12	+ 6 46 7·33	6·97	+ 6·540	— 0·45	+ 0·016	+0·02	...	...	...	...	...	2082	324	...
582*	92·13	12	— 71 7 57·13	57·15	+ 6·515	+ 0·08	+ 0·032	—0·07	...	...	491	711	...	2087	...	*254*
583	91·53	6	— 46 47 32·24	32·29	+ 6·502	— 0·24	...	...	...	...	...	...	...	2085	...	...
584	89·96	12	+ 18 39 7·27	6·86	+ 6·451	— 0·48	— 0·034	0·00	...	...	...	...	...	...	...	...
585*	86·09	4	+ 5 24 59·14	58·94	+ 6·417	— 0·44	— 0·002	—0·01	...	...	...	...	...	2093	326	*256*
586	91·03	9	— 42 34 32·53	32·68	+ 6·389	— 0·27	...	...	...	...	...	...	...	2099	...	...
587	88·46	7	— 20 57 14·32	14·58	+ 6·158	— 0·36	...	...	...	...	...	...	...	...	...	...
588	89·76	29	+ 2 15 35·76	35·44	+ 6·154	— 0·44	— 0·007	0·00	...	...	...	...	...	2128	329	*259*
589*	87·89	7	+ 9 58 31·82	31·51	+ 6·127	— 0·46	— 0·129	—0·28	...	...	...	...	...	...	...	...
590	89·42	8	+ 0 17 18·08	17·74	+ 6·097	— 0·43	...	...	...	...	...	...	177	...	...	...
591	89·38	13	+ 32 59 28·16	27·59	+ 6·044	— 0·54	— 0·003	0·00	...	...	495	...	176	2138	331	239*
592	90·18	8	+ 29 57 13·09	12·51	+ 5·945	— 0·53	...	...	...	...	...	...	...	...	...	...
593	89·04	6	+ 24 52 48·56	48·11	+ 5·912	— 0·51	— 0·049	—0·05	...	...	...	...	178	...	...	*262*
594	90·30	9	— 68 15 6·69	6·89	+ 5·899	+ 0·02	...	...	...	...	...	...	...	2154	...	*263*
595	92·79	12	— 83 41 51·70	51·69	+ 5·877	+ 1·18	...	...	...	...	...	...	...	2163	...	...

567. Proper Motion determined for this Catalogue.

No.	Bradley or Lacaille.	Piazzi. 1800.	B.A.C. 1850.	C.G.A. 1875.	Star's Name.	Mag.	Mean Date. 1800+	No. of Obs.	Mean R.A. 1890·0.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_a.	Corr. for μ_a to 1890·0.
									h m s	s	s	s	s
596	...	...	...	...	B.D. + 21° No. 740 ...	9·0†	93·97	3	4 52 28·270	+ 3·5782	+ 0·010	...	...
597	688	252	1535	...	6 Aurigæ	6·8†	87·48	7	4 52 48·319	+ 4·1271	+ 0·017	—0·0017	— 0·004
598	694	261	1539	...	101 Tauri	7·0†	88·30	8	4 53 25·559	+ 3·4338	+ 0·008	+0·0058	+ 0·010
599	690	256	1540	...	7 Aurigæ .....ε	Var.	86·67	3	4 54 4·389	+ 4·2958	+ 0·019	—0·0016	— 0·005
600	693	262	1541	...	8 Aurigæ .....ζ	4·0	88·03	2	4 54 47·190	+ 4·1845	+ 0·018	—0·0005	— 0·001
601	...	...	...	...	B.D. — 6° No. 1057.....	9·3†	87·08	5	4 55 20·370	+ 2·9319	+ 0·005	...	...
602	698	274	1551	...	102 Tauri .....ι	4·7	89·16	12	4 56 31·236	+ 3·5773	+ 0·009	+0·0040	+ 0·003
603	...	285	1553	5736	Piazzi IV. 285.....	5·1	87·57	9	4 56 39·237	+ 2·5990	+ 0·004	...	...
604	702	286	1557	...	11 Orionis	4·7	88·25	12	4 58 16·980	+ 3·4239	+ 0·008	—0·0002	0·000
605	1752	...	1587	5787	Mensæ.....η	5·2	88·26	15	4 58 21·073	— 1·7730	+ 0·072	...	...
606	...	...	...	...	Gilless P.Z. 3033	8·5‡	91·47	2	4 58 32·657	—22·725	+ 2·517	...	...
607	700	283	1558	...	10 Aurigæ .....η	3·3	89·00	1	4 58 47·950	+ 4·1968	+ 0·017	+0·0022	+ 0·002
608	...	...	...	...	Lalande 9512	7·0†	91·21	6	4 58 54·760	+ 3·9348	+ 0·013	...	...
609*	713	303	1575	5816	2 Leporis .....ε	3·3	86·80	5	5 0 48·238	+ 2·5366	+ 0·003	+0·0017	+ 0·005
610†	1728	...	1589	5850	Pictoris.....η^2	4·9	89·32	14	5 2 6·976	+ 1·5447	+ 0·006	+0·0027	+ 0·002
611*	715	312	1588	5848	67 Eridani .....β	2·9	88·91	22	5 2 26·515	+ 2·9540	+ 0·005	—0·0066	— 0·007
612	...	...	...	...	W.B. (2) IV. 1614	6·5†	90·05	6	5 2 43·522	+ 3·8100	+ 0·012	...	...
613	...	...	...	5857	Lalande 9702	6·8*	90·06	6	5 2 44·015	+ 2·7798	+ 0·004	...	...
614†	1744	...	1600	5893	Doradûs .....ζ	4·7	90·98	12	5 3 37·438	+ 1·0275	+ 0·010	—0·0090	+ 0·009
615*	720	323	1597	5888	69 Eridani .. ..λ	4·4	87·04	5	5 3 52·956	+ 2·8695	+ 0·004	—0·0002	— 0·001
616†	1778	...	1606	5919	Mensæ .....β	5·3	91·38	12	5 4 8·331	— 0·7968	+ 0·039	—0·004	+ 0·006
617	1751	...	1605	5937	Lacaille 1751	7·6	89·30	4	5 5 21·528	+ 1·2082	+ 0·008	...	...
618	1777	...	...	5945	Lacaille 1777	7½*	90·74	6	5 5 24·888	— 0·1807	+ 0·026	...	...
619	719	324	1602	...	11 Aurigæ .....μ	4·9	86·75	4	5 5 53·954	+ 4·1010	+ 0·014	—0·0047	— 0·015
620	732	16	1616	5984	5 Leporis .....μ	3·3	87·99	12	5 7 59·386	+ 2·6907	+ 0·003	+0·0001	0·000
621	...	...	...	...	Lalande 9806	7·0†	88·26	14	5 8 7·940	+ 3·0823	+ 0·005	...	...
622	1804	...	...	6011	Lacaille 1804	7½*	90·27	5	5 8 33·106	— 0·8017	+ 0·037	...	...
623	722	6	1613	...	13 Aurigæ .....α	0·2	89·00	2	5 8 33·780	+ 4·4167	+ 0·017	+0·0079	+ 0·008
624*	736	18	1623	6004	19 Orionis .....β	0·3	88·39	23	5 9 15·062	+ 2·8816	+ 0·004	—0·0012	— 0·002
625	733	21	1627	...	16 Aurigæ .....*pr.*	5·0	90·72	6	5 10 57·520	+ 3·9292	+ 0·011	+0·0030	— 0·002
626†	1921	...	1675	6105	Mensæ.....ξ	5·9	88·30	14	5 11 24·708	— 7·0126	+ 0·307	—0·013	— 0·022
627*	742	40	1638	6066	20 Orionis .....τ	3·7	87·03	2	5 12 15·880	+ 2·9128	+ 0·004	—0·0024	— 0·007
628†	1793	51	1650	6098	Columbæ .....ο	5·0	88·13	13	5 13 30·990	+ 2·1555	+ 0·003	+0·0060	+ 0·011
629	...	...	...	6099 6100	C.G.A. 6099–6100	*	87·09	4	5 13 38·220	+ 2·3877	+ 0·003	...	...
630†	1828	...	1659	6119	Doradûs .....θ	4·8	90·58	12	5 13 50·453	— 0·0601	+ 0·021	—0·0005	0·000

605, 626. B.A.C. gives no letter.

609. Fundamental star for Southern Zones.

No.	Mean Date. 1800+	No. of Obs.	Mean Dec. 1890·0.	Sec. of Final Dec.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_δ.	Corr. for μ_δ to 1890·0.	Fallows and Henderson.	Johnson.	Cape Catalogues. 1840.	1850.	1860.	1880.	1885.	Melbourne, 1870 and 1880.
			° ′ ″	″	″	″	″									
596	93·97	3	+ 21 34 8·92	8·66	+ 5·824	— 0·50	...	...	...	...	...	...	...		...	...
597	87·48	7	+ 39 29 15·36	14·82	+ 5·796	— 0·58	— 0·006	—0·02	...	...	...	...	...	...	...	...
598	88·30	8	+ 15 45 1·55	1·19	+ 5·744	— 0·48	— 0·023	—0·04	...	...	...	...	...	...	...	...
599*	89·92	12	+ 43 39 36·50	35·64	+ 5·690	— 0·60	— 0·014	0·00	...	...	500	...	...	...	334	...
600	90·56	12	+ 40 54 52·57	51·79	+ 5·630	— 0·59	— 0·008	0·00	...	...	501	...	...	...	335	...
601	87·08	5	— 6 14 55·87	56·00	+ 5·583	— 0·41	...	...	...	...	...	...	...	...	...	...
602	89·06	15	+ 21 25 56·18	55·81	+ 5·484	— 0·50	— 0·040	—0·04	...	...	504	728	180	...	337	...
603	87·57	9	— 20 12 44·78	44·96	+ 5·473	— 0·37	...	...	...	...	...	730	...	2190	338	...
604	88·25	12	+ 15 15 1·26	0·92	+ 5·335	— 0·48	— 0·031	—0·05	...	...	...	733	...	...	340	...
605*	87·63	25	— 75 6 20·26	20·40	+ 5·329	+ 0·25	...	...	...	...	...	746	182	2210	341	242
606*	91·47	2	— 87 8 21·50	21·50	+ 5·313	+ 3·19	...	...	...	...	...	...	...	...	...	...
607	91·58	12	+ 41 5 6·15	5·44	+ 5·291	— 0·59	— 0·061	+0·10	...	...	506	...	...	...	...	...
608	91·21	6	+ 33 46 1·71	1·10	+ 5·282	— 0·56	...	...	...	...	...	...	...	...	...	...
609*	86·70	10	— 22 31 8·81	8·92	+ 5·122	— 0·36	— 0·069	—0·23	...	109	514	741	186	2225	342	243*
610	89·32	14	— 49 43 37·49	37·70	+ 5·011	— 0·22	— 0·007	0·00	...	...	519	748	...	2232	...	...
611	88·76	33	— 5 13 44·91	45·15	+ 4·983	— 0·42	— 0·065	—0·08	95*	111	...	747	...	2234	344	*274*
612	90·05	6	+ 29 39 22·65	22·07	+ 4·959	— 0·54	...	...	...	...	...	...	...	...	...	...
613	90·06	6	— 12 44 5·03	5·38	+ 4·959	— 0·40	...	...	...	...	...	...	...	...	...	...
614	90·98	12	— 57 37 22·91	23·05	+ 4·884	— 0·15	+ 0·109	—0·11	...	...	522	755	...	2249	...	*278*
615	87·04	5	— 8 53 44·22	44·38	+ 4·861	— 0·41	+ 0·001	0·00	98	112	...	753	...	2248	346	*277*
616	91·38	12	— 71 27 51·32	51·43	+ 4·840	+ 0·11	+ 0·04	—0·06	...	...	524	759	...	2253	...	...
617	89·26	5	— 55 7 57·12	57·34	+ 4·735	— 0·17	...	...	...	...	523	758	...	2260	...	...
618	90·74	6	— 68 13 53·29	53·49	+ 4·731	+ 0·02	...	...	...	...	...	...	...	2262	...	...
619	89·50	12	+ 38 21 12·56	11·92	+ 4·690	— 0·58	— 0·071	—0·04	...	...	...	...	...	...	347	...
620	87·99	12	— 16 20 10·08	10·30	+ 4·512	— 0·38	— 0·016	—0·03	...	114	...	765	...	2282	...	*286*
621	88·26	14	+ 0 25 51·95	51·65	+ 4·500	— 0·44	...	...	...	...	...	...	...	...	...	...
622	89·91	6	— 71 24 22·63	22·79	+ 4·464	+ 0·11	...	...	...	...	...	...	...	2291	...	...
623	90·92	13	+ 45 53 7·75	6·76	+ 4·463	— 0·63	— 0·424	+0·39	*169*	...	526	762	...	2285	351	245*
624	89·36	28	— 8 19 45·12	45·38	+ 4·404	— 0·41	+ 0·005	0·00	99*	116	529	769	189	2292	353	247*
625†	90·72	6	+ 33 15 21·17	20·51	+ 4·258	— 0·56	— 0·154	+0·11	...	...	...	...	...	...	...	...
626*	87·65	34	— 82 36 57·57	57·60	+ 4·219	+ 1·07	0·00	0·00	...	...	548	794	...	2330	356	249*
627	87·06	4	— 6 57 49·27	49·44	+ 4·146	— 0·42	— 0·003	—0·01	100	117	...	774	...	2319	357	*296*
628	88·13	13	— 35 0 10·75	10·94	+ 4·039	— 0·31	— 0·337	—0·63	...	...	537	779	191	2335	...	248
629†	87·08	3	— 27 36 15·94	16·02	+ 4·029	— 0·34	...	...	...	...	...	...	...	...	...	...
630	90·58	12	— 67 18 32·20	32·46	+ 4·012	+ 0·01	+ 0·036	—0·02	...	...	540	785	192	2341	...	250

599. Limits of magnitude, 3·0–4·5. Period irregular.
625. $5^m{\cdot}0$, 12^m. $4''{\cdot}4$ $57°$. Fainter star not seen.
629. $9^m{\cdot}0$, $9^m{\cdot}5$ $2''\pm$ *np*. Probably seen as one star.

606. Magnitude from Cape observations. Observed only *S.P.*
626. R.A. observed only *S.P.*

No.	Bradley or Lacaille.	Piazzi. 1800.	B.A.C. 1850.	C.G.A. 1875.	Star's Name.	Mag.	Mean Date. 1800+	No. of Obs.	Mean R.A. 1890·0.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_α.	Corr. for μ_α to 1890·0.
									h m s	s	s	s	s
631	...	41	1648	...	Piazzi V. 41.....	6·5†	87·06	4	5 14 4·870	+3·7645	+ 0·008	—0·003	— 0·009
632	...	42	1649	...	Piazzi V. 42.....	5·6	89·62	7	5 14 12·794	+3·8126	+ 0·009	...	...
633	749	54	1654	6124	7 Leporis .....ν	5·2	89·14	12	5 14 52·782	+2·7836	+ 0·004	—0·0019	— 0·002
634†	1796	59	1655	6128	Lacaille 1796	5·7	89·67	12	5 15 0·628	+2·3904	+ 0·003	—0·0023	— 0·001
635†	1825	...	1672	6167	Pictoris .....ζ	5·6	89·89	11	5 16 40·243	+1·4668	+ 0·005	+0·0012	0·000
636	753	65	1665	...	23 Orionis... .....m	5·0	89·82	4	5 17 3·078	+3·1514	+ 0·005	—0·0014	0·000
637	...	...	...	...	Lalande 10132	8·3†	87·08	4	5 18 23·570	+2·8096	+ 0·003	...	...
638*	765	81	1684	6217	28 Orionis (as one mass) η	3·5	87·42	8	5 18 56·720	+3·0151	+ 0·004	—0·0015	— 0·004
639	761	80	1687	...	24 Orionis .....γ	1·9	89·26	38	5 19 13·845	+3·2166	+ 0·005	—0·0019	— 0·001
640	756	72	1681	...	112 Tauri .....β	1·9	89·00	9	5 19 20·248	+3·7874	+ 0·008	+0·0013	+ 0·001
641	...	...	...	...	Lalande 10171	8·5†	87·09	4	5 19 31·040	+2·8145	+ 0·003	...	...
642	...	...	...	6234	Lalande 10182	5·7	88·50	7	5 19 34·641	+2·6682	+ 0·003	...	...
643	...	...	...	...	Lalande 10167	7·3†	88·44	5	5 20 17·562	+3·4532	+ 0·006	...	...
644*	781	113	1715	6344	9 Leporis .....*seq.* β	3·0	87·97	10	5 23 31·878	+2·5698	+ 0·003	—0·0015	— 0·003
645†	1862	122	1719	6348	Lacaille 1862	5·9	90·27	14	5 23 33·519	+1·9235	+ 0·003	—0·0017	0·000
646	...	...	...	6358	Lalande 10338.....	6·8*	88·58	6	5 24 6·063	+2·9022	+ 0·004	...	...
647	779	112	1717	6359	31 Orionis.....	Var.	87·68	5	5 24 8·802	+3·0453	+ 0·004	—0·0017	— 0·004
648	2066	...	...	6422	Lacaille 2066	6·7	88·56	14	5 24 12·883	—9·4542	+ 0·325	...	...
649	776	114	1723	...	25 Aurigæ .....χ	5·0	89·91	12	5 25 34·048	+3·9019	+ 0·008	—0·0008	0·000
650	1897	...	...	6411	Lacaille 1897	7*	90·93	7	5 26 20·180	+0·7349	+ 0·009	...	...
651	787	126	1730	6401	34 Orionis .....δ	2·4	89·85	13	5 26 23·164	+3·0637	+ 0·004	—0·0014	0·000
652†	1888	...	1740	6423	Lacaille 1888	5·6	89·80	11	5 27 7·964	+1·6458	+ 0·004	—0·0013	0·000
653†	1883	140	1739	6427	Columbæ .....ϵ	3·9	90·23	12	5 27 18·463	+2·1267	+ 0·003	+0·0019	0·000
654*	796	139	1741	6436	11 Leporis .....α	2·7	89·07	15	5 27 52·701	+2·6449	+ 0·003	—0·0011	— 0·001
655	792	138	1748	...	37 Orionis .....ϕ^1	4·4	90·27	12	5 28 46·960	+3·2922	+ 0·004	—0·0018	0·000
656	794	141	1749	...	39 Orionis.....*pr.* λ	3·7	92·36	6	5 29 4·747	+3·3027	+ 0·004	—0·0015	+ 0·004
657	1901	...	...	6473	Lacaille 1901	7¾*	88·14	12	5 29 21·754	+1·6239	+ 0·004	...	...
658	802	147	1758	6478	41 Orionis ....θ^1	4·4	93·29	10	5 29 52·280	+2·9457	+ 0·003	—0·0020	+ 0·007
659	804	150	1760	6484	43 Orionis ..... *pr.* θ^2	5·0†	92·26	12	5 29 58·748	+2·9451	+ 0·003	—0·0013	+ 0·003
660	...	...	...	...	43 Orionis .....*seq.* θ^2	7·8†	89·10	1	5 30 2·230	+2·9451	+ 0·003	—0·0013	— 0·001
661*	806	151	1762	6486	44 Orionis .....ι	3·0	88·22	9	5 30 3·098	+2·9336	+ 0·003	—0·0007	— 0·001
662*	809	160	1765	6501	46 Orionis .....ϵ	1·8	88·92	12	5 30 37·901	+3·0430	+ 0·003	—0·0018	— 0·002
663	800	152	1767	...	123 Tauri .....ζ	3·0	90·17	12	5 31 4·229	+3·5836	+ 0·005	—0·0007	0·000
664	...	...	...	...	Lalande 10609	7·5†	89·70	6	5 32 18·617	+3·2105	+ 0·004	...	...
665†	1948	...	1791	6561	Doradûs.....β	3·7	88·88	11	5 32 40·183	+0·5159	+ 0·009	—0·0020	— 0·002

No.	Mean Date. 1800+	No. of Obs.	Mean Dec. 1890·0.	Sec. of Final Dec.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_δ.	Corr. for μ_δ to 1890·0.	Fallows and Henderson.	Johnson.	Cape Catalogues. 1840.	1850.	1860.	1880.	1885.	Melbourne, 1870 and 1880.
			° ′ ″	″	″	″	″	″								
631	87·06	4	+ 27 50 41·91	41·60	+ 3·991	— 0·54	— 0·01	—0·03	...	...	...	...	...	2338	...	*300*
632	89·62	7	+ 29 27 27·36	26·77	+ 3·979	— 0·55	...	...	...	...	...	...	...	...	...	...
633	89·29	13	— 12 25 43·84	44·13	+ 3·922	— 0·40	+ 0·024	+0·02	...	...	...	782	...	2345	...	...
634	89·67	12	— 27 28 56·53	56·85	+ 3·912	— 0·34	— 0·006	0·00	...	...	538	783	...	2347	...	...
635	89·89	11	— 50 43 28·07	28·30	+ 3·769	— 0·21	+ 0·200	+0·02	...	...	544	790	195	2357	...	...
636	89·06	6	+ 3 26 16·49	16·16	+ 3·736	— 0·45	— 0·002	0·00	...	...	...	...	194	2358	...	...
637	87·08	4	— 11 18 25·72	25·84	+ 3·620	— 0·40	...	...	...	...	...	...	...	...	...	...
638†	87·15	10	— 2 29 55·59	55·79	+ 3·573	— 0·43	+ 0·010	+0·03	102	119	...	800	...	2378	360	*303*
639	89·62	50	+ 6 14 58·06	57·73	+ 3·548	— 0·46	— 0·015	—0·01	*133*	...	...	...	...	2381	362	...
640	88·45	11	+ 28 30 49·91	49·42	+ 3·540	— 0·55	— 0·180	—0·28	*161*	...	546	798	196	2382	363	252*
641	87·09	4	— 11 5 32·00	32·12	+ 3·524	— 0·41	...	...	...	...	...	...	...	...	...	...
642	88·44	8	— 17 4 34·14	34·41	+ 3·519	— 0·39	...	...	...	...	...	...	...	...	...	...
643	88·44	5	+ 16 7 23·11	22·73	+ 3·456	— 0·50	...	...	...	...	...	...	...	...	...	...
644†	87·97	10	— 20 50 50·78	50·99	+ 3·177	— 0·37	— 0·079	—0·16	104	120	...	815	...	2428	364	*306*
645	90·27	14	— 41 2 19·67	19·96	+ 3·176	— 0·28	+ 0·097	—0·03	...	...	556	819	...	2431	...	*307*
646	88·58	6	— 7 20 57·44	57·74	+ 3·128	— 0·42	...	...	...	...	...	...	...	...	...	...
647*	87·23	7	— 1 10 46·24	46·47	+ 3·124	— 0·44	— 0·017	—0·05	...	121	...	817	...	2436	366	...
648*	87·68	42	— 83 58 55·31	55·34	+ 3·118	+ 1·36	...	...	...	...	...	...	...	2452	367	261*
649	89·91	12	+ 32 6 35·70	35·11	+ 3·002	— 0·56	0·000	0·00	...	...	...	...	199	...	...	...
650	90·93	7	— 60 30 3·56	3·75	+ 2·935	— 0·11	...	...	...	...	...	...	...	2459	...	257
651*	89·09	22	— 0 22 52·27	52·54	+ 2·931	— 0·44	— 0·005	0·00	105*	122	559	823	200	2454	368	256*
652	89·80	11	— 47 9 25·84	26·08	+ 2·866	— 0·24	— 0·169	—0·03	...	...	565	828	...	2461	...	259
653	90·23	12	— 35 33 5·40	5·61	+ 2·850	— 0·31	— 0·048	+0·01	...	124	563	827	201	2462	...	*310*
654	88·75	16	— 17 54 5·24	5·47	+ 2·801	— 0·38	+ 0·010	+0·01	107*	125	564	829	202	2466	370	260*
655	90·27	12	+ 9 24 51·86	51·42	+ 2·723	— 0·47	— 0·002	0·00	...	...	...	...	...	2473	371	...
656†	92·36	6	+ 9 51 35·07	34·79	+ 2·697	— 0·48	— 0·018	+0·04	...	...	...	...	...	2477	372	...
657	88·14	12	— 47 33 15·06	15·20	+ 2·672	— 0·24	...	...	...	...	...	...	...	2482	...	...
658	93·36	11	— 5 27 46·46	46·61	+ 2·629	— 0·43	+ 0·021	—0·07	...	...	...	839	...	2488	...	...
659	92·26	12	— 5 29 20·14	20·41	+ 2·619	— 0·43	+ 0·021	—0·05	...	...	...	841	...	2490	...	...
660	89·10	1	— 5 29 22·36	22·74	+ 2·615	— 0·43	+ 0·021	+0·02	...	...	...	...	...	...	...	...
661	88·82	11	— 5 58 57·37	57·64	+ 2·613	— 0·43	+ 0·007	+0·01	...	127	...	843	...	2493	374	*314*
662	88·44	16	— 1 16 21·52	21·81	+ 2·562	— 0·44	+ 0·006	+0·01	110*	128	573	845	203	2495	375	266*
663	90·17	12	+ 21 4 29·32	28·82	+ 2·525	— 0·52	— 0·024	0·00	109	...	572	846	204	...	...	...
664	89·70	6	+ 5 56 22·59	22·16	+ 2·416	— 0·46	...	...	...	...	...	...	...	...	...	...
665	88·90	12	— 62 33 42·34	42·48	+ 2·386	— 0·08	+ 0·016	+0 02	...	131	584	862	205	2516	376	268

638. $3^m·8$, $5^m·0$ 1″·1 85°. Observed as one mass.
647. Limits of magnitude in *Uranometria Argentina*, 4¾–6.
651. Formerly considered variable; recent observations do not confirm.
644. $3^m·0$, $9^m·6$ 2″·8 285°. Fainter star not seen.
648. R.A. observed only *S.P.*
656. $3^m·7$, $5^m·7$ 4″·3 45°. Brighter star observed.

No.	Bradley or Lacaille.	Piazzi. 1800.	B.A.C. 1850.	C.G.A. 1875.	Star's Name.	Mag.	Mean Date. 1800+	No. of Obs.	Mean R.A. 1890·0.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_α.	Corr. for μ_α to 1890·0.
									h m s	s	s	s	s
666	814	172	1780	6558	48 Orionis (as one mass) σ	3·7	87·75	10	5 33 13·435	+ 3·0107	+ 0·003	—0·0018	— 0·004
667	819	188	1794	6614	50 Orionis.....*pr.* ζ	1·9	88·40	10	5 35 12·515	+ 3·0260	+ 0·003	—0·0008	— 0·001
668	...	...	...	6616	Lalande 10734.....	5·1	89·28	5	5 35 15·642	+ 3·0450	+ 0·003	...	...
669†	1938	196	1802	6633	Columbæ.....α	2·7	87·33	6	5 35 39·913	+ 2·1714	+ 0·003	—0·0010	— 0·003
670	...	...	...	6639	Lalande 10791.....	6·8*	88·14	13	5 35 55·736	+ 2·5792	+ 0·003	...	...
671†	2027	...	1819	6674	Mensæ.....γ	5·0	90·79	19	5 36 14·491	— 2·4317	+ 0·039	+0·025	— 0·020
672	...	...	...	...	Lalande 10807.....	7·1†	87·09	4	5 36 37·670	+ 2·7065	+ 0·003	...	...
673	1985	...	1815	6679	Lacaille 1985	6·6*	89·38	9	5 36 54·863	— 0·0044	+ 0·012	...	...
674	2016	...	...	6694	Lacaille 2016	5·5	90·07	5	5 37 29·184	— 1·5087	+ 0·025	...	...
675*	837	219	1823	6733	13 Leporis .....γ	3·8	87·29	13	5 39 52·668	+ 2·5213	+ 0·003	—0·0227	— 0·062
676*	843	230	1840	6778	14 Leporis .....ζ	3·7	89·54	37	5 41 58·269	+ 2·7188	+ 0·003	—0·0018	— 0·001
677	835	223	1837	...	132 Tauri	5·1	89·37	6	5 42 15·938	+ 3·6807	+ 0·004	—0·0009	— 0·001
678*	844	234	1843	6788	53 Orionis .....κ	2·2	88·52	21	5 42 32·311	+ 2·8444	+ 0·003	—0·0017	— 0·003
679	842	235	1846	...	134 Tauri.....	4·8	90·56	6	5 43 22·162	+ 3·3709	+ 0·003	—0·0021	+ 0·001
680	840	229	1845	...	32 Aurigæ .....ν	4·2	87·57	2	5 43 51·800	+ 4·1568	+ 0·005	—0·0028	— 0·007
681†	2045	...	1868	6852	Doradûs .....δ	4·5	90·59	11	5 44 34·578	+ 0·1078	+ 0·008	—0·0082	+ 0·005
682	2021	...	1861	6848	Pictoris .....β	3·9	89·56	6	5 44 40·700	+ 1·4191	+ 0·004	0·000*	0·000
683	2011	...	1865	6866	Lacaille 2011	6·8*	88·36	13	5 45 42·937	+ 2·2818	+ 0·002	...	...
684	2138	...	1898	6907	Mensæ .....π	5·6	87·59	8	5 45 55·995	— 4·9449	+ 0·053	+ 0·034*	+0·082
685*	858	261	1871	6884	15 Leporis.....δ	4·0	88·31	4	5 46 35·335	+ 2·5632	+ 0·002	+ 0·0152	+0·026
686†	2029	267	1878	6896	Columbæ .....β	3·1	90·34	11	5 47 4·882	+ 2·1094	+ 0·003	+ 0·0021	—0·001
687†	2053	...	1884	6915	Pictoris .....γ	4·3	93·51	12	5 47 49·744	+ 1·0788	+ 0·004	+ 0·0058	—0·020
688	2040	...	...	6923	Lacaille 2040	7½*	91·94	6	5 48 25·480	+ 1·9065	+ 0·003	...	...
689	860	268	1883	...	58 Orionis .....α	var.	87·36	11	5 49 12·910	+ 3·2456	+ 0·003	+ 0·0008	+0·002
690	2048	...	...	6964	Lacaille 2048	7·0*	89·88	5	5 50 15·114	+ 2·4012	+ 0·002	...	...
691	2080	...	1903	6979	Lacaille 2080	5·9	93·38	12	5 50 29·605	+ 1·0017	+ 0·004	...	...
692*	866	281	1901	6992	16 Leporis .....η	3·7	87·23	7	5 51 23·689	+ 2·7347	+ 0·002	—0·0044	— 0·012
693	859	269	1895	...	34 Aurigæ .....β	2·1	...	...	5 51 27	+ 4·4054	+ 0·004	—0·0065	...
694	2296	...	1960	7097	Lacaille 2296	6·3	92·91	43	5 51 30·735	—11·715	+ 0·114	—0·011†	+ 0·032
695	2069	290	1906	7011	Columbæ .....ξ	4·9	88·50	11	5 51 42·764	+ 2·0608	+ 0·003	...	...
696	863	277	1900	...	37 Aurigæ (as one mass) θ	2·7	86·00	2	5 52 13·130	+ 4·0868	+ 0·003	+0·0037	+ 0·015
697	2074	...	...	7026	Lacaille 2074	7½*	91·14	6	5 52 30·877	+ 2·1899	+ 0·002	...	...
698	2084	297	1922	7064	Columbæ.....γ	4·5	89·23	12	5 53 38·218	+ 2·1264	+ 0·002	—0·003*	— 0·002
699†	2099	315	1933	7120	Columbæ.....η	4·0	87·79	11	5 55 46·730	+ 1·8338	+ 0·003	+0·0021	+ 0·005
700	...	...	...	...	B.D. — 19° No. 1326 ...	9·3†	87·88	5	5 56 5·214	+ 2·6059	+ 0·002	...	...

675, 685. Fundamental star for Southern Zones.

684, 695. B.A.C. gives no letter.

699. B.A.C. assigns to Puppis.

No.	Mean Date. 1800+	No. of Obs.	Mean Dec. 1890·0.	Sec. of Final Dec.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_δ.	Corr. for μ_δ to 1890·0.	Fallows and Henderson.	Johnson.	Cape Catalogues. 1840.	1850.	1860.	1880.	1885.	Melbourne, 1870 and 1880.
			° ′ ″	″	″	″	″	″								
666†	87·72	12	— 2 39 50·84	51·07	+ 2·338	— 0·44	+ 0·009	+0·02	111	129	...	853	...	2517	378	...
667†	88·00	13	— 2 0 4·36	4·61	+ 2·166	— 0·44	+ 0·010	+0·02	113*	132	...	863	...	2539	379	...
668	89·08	6	— 1 11 14·10	14·45	+ 2·160	— 0·44	...	...	...	...	...	...	...	...	...	...
669	87·14	7	— 34 7 59·01	59·19	+ 2·125	— 0·32	— 0·034	—0·10	114*	133	586	866	206	2547	380	270*
670	88·14	13	— 20 21 22·96	23·17	+ 2·102	— 0·38	...	...	...	...	...	...	...	...	...	...
671	90·93	19	— 76 25 7·73	7·94	+ 2·075	+ 0·35	+ 0·322	—0·30	...	...	593	874	207	2558	...	...
672	87·09	4	— 15 23 34·45	34·56	+ 2·041	— 0·39	...	...	...	...	...	...	...	...	...	...
673	89·38	9	— 66 37 20·03	20·20	+ 2·016	0·00	...	...	...	...	591	872	...	2560	...	271
674	90·24	6	— 73 48 21·80	22·04	+ 1·967	+ 0·22	...	...	...	...	...	...	...	2569	...	...
675*	87·34	14	— 22 29 4·23	4·38	+ 1·758	— 0·37	— 0·363	—0·97	...	134	...	876	...	2582	383	*321*
676	89·22	41	— 14 51 48·15	48·41	+ 1·576	— 0·39	+ 0·009	+0·01	...	135	598	881	...	2596	385	*324*
677	89·37	6	+ 24 31 47·97	47·45	+ 1·550	— 0·54	— 0·010	—0·01	...	...	597	880	...	...	...	...
678	88·56	25	— 9 42 33·18	33·42	+ 1·527	— 0·41	+ 0·004	+0·01	117*	137	...	884	...	2601	386	*325*
679	90·56	6	+ 12 36 56·48	56·03	+ 1·454	— 0·49	— 0·010	+0·01	...	...	...	...	...	...	...	...
680	91·09	13	+ 39 6 55·46	54·75	+ 1·411	— 0·60	+ 0·032	—0·03	...	...	...	...	...	...	...	...
681	90·59	11	— 65 46 36·13	36·23	+ 1·348	— 0·02	— 0·014	+0·01	118	139	608	894	212	2629	...	275
682	89·56	6	— 51 6 23·14	23·21	+ 1·339	— 0·21	+ 0·10*	+0·04	...	...	607	890	210	2628	389	...
683	88·36	13	— 30 39 12·48	12·66	+ 1·249	— 0·33	...	...	...	...	...	893	...	2639	...	...
684*	87·24	31	— 80 33 5·57	5·59	+ 1·230	+ 0·72	+ 0·93*	+2·57	...	...	622	907	219	2653	390	278*
685*	87·86	5	— 20 53 18·72	18·98	+ 1·173	— 0·37	— 0·650	—1·39	...	138	...	896	...	2646	391	*330*
686	90·07	12	— 35 48 36·19	36·38	+ 1·130	— 0·31	+ 0·407	—0·03	119*	140	609	898	214	2652	...	277
687	93·51	12	— 56 11 39·73	39·81	+ 1·064	— 0·16	— 0·070	+0·25	...	...	612	900	...	2661	...	...
688	91·51	5	— 41 7 54·42	54·50	+ 1·012	— 0·28	...	...	...	...	...	...	...	2667	...	...
689*	88·09	11	+ 7 23 9·18	8·92	+ 0·943	— 0·47	+ 0·024	+0·05	120*	...	611	899	216	2672	392	280*
690	89·88	5	— 26 40 54·03	54·34	+ 0·853	— 0·35	...	...	...	...	...	...	...	2683	...	...
691	93·38	12	— 57 10 36·31	36·42	+ 0·832	— 0·15	...	...	...	...	620	909	...	2691	...	...
692	87·23	7	— 14 11 18·05	18·20	+ 0·752	— 0·40	+ 0·146	+0·40	...	141	...	908	...	2696	394	*334*
693	92·89	9	+ 44 56 7·53	6·75	+ 0·748	— 0·64	— 0·011	+0·03	...	...	618	...	...	2694	393	*333*
694*	90·84	88	— 84 50 15·28	15·38	+ 0·744	+ 1·71	+ 0·086†	—0·07	...	...	651	937	...	2724	396	*336*
695*	88·38	12	— 37 8 13·51	13·69	+ 0·725	— 0·30	...	...	...	...	623	912	...	2700	...	...
696†	92·00	8	+ 37 12 14·64	14·17	+ 0·681	— 0·59	— 0·078	+0·16	...	...	...	...	...	...	...	...
697	91·14	6	— 33 26 58·42	58·73	+ 0·655	— 0·32	...	...	...	...	...	...	...	2710	...	...
698	89·23	12	— 35 17 43·34	43·59	+ 0·557	— 0·31	+ 0·01*	+0·01	121	143	630	921	222	2718	...	283
699*	87·79	11	— 42 49 17·92	18·06	+ 0·369	— 0·27	— 0·020	—0·04	...	144	635	926	223	2735	398	287
700	87·88	5	— 19 14 27·59	27·80	+ 0·343	— 0·38	...	...	...	...	...	...	...	...	...	...

666. Very close double ; $3^m·9$, $5^m·6$. Observed as one mass.
667. $1^m·9$, $5^m·3$ $2''·8$ 155°. Brighter star observed.
689. Limits of magnitude, 1–1·4. Irregularly periodic.
694. Proper Motion determined for this Catalogue.
696. $2^m·7$, $7^m·2$ $2''·1$ 6°. Observed as one mass.

No.	Bradley or Lacaille.	Piazzi. 1800.	B.A.C. 1850.	C.G.A. 1875.	Star's Name.	Mag.	Mean Date. 1800+	No. of Obs.	Mean R.A. 1890·0.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_α.	Corr. for μ_α to 1890·0.
									h m s	s	s	s	s
701	...	...	...	...	Lalande 11373.....	7·0†	89·62	2	5 56 25·545	+ 4·4370	+ 0·002	...	...
702	2117	...	...	7164	Lacaille 2117	7·0*	94·94	3	5 57 29·430	+ 1·8315	+ 0·002	...	...
703†	2210	...	1969	7209	Mensæ.....κ	5·5	89·02	8	5 57 42·229	— 4·0565	— 0·004	—0·013	— 0·013
704	882	...	1942	...	40 Aurigæ.....	5·3	89·11	3	5 59 0·037	+ 4·1356	+ 0·001	—0·0010	— 0·001
705*	885	322	1945	...	66 Orionis	5·7	87·07	3	5 59 9·700	+ 3·1698	+ 0·002	—0·0026	— 0·008
706	...	...	...	...	C.P.D. — 43° No. 747...	9·2‡	94·96	3	5 59 42·370	+ 1·8248	+ 0·002	...	...
707	887	332	1958	...	67 Orionis .....ν	4·4	89·87	52	6 1 17·452	+ 3·4252	+ 0·002	—0·0003	0·000
708†	2137	346	1964	7266	Lacaille 2137	6·4	91·96	12	6 1 18·445	+ 1·7340	+ 0·002	—0·0082	+ 0·016
709	2141	348	1968	7279	Lacaille 2141.....*seq.*	6½*	88·35	8	6 1 30·288	+ 1·7320	+ 0·002	—0·005†	— 0·008
710	...	...	...	7267	Lalande 11640.....	7·0*	91·09	6	6 1 36·690	+ 2·9275	+ 0·002	...	...
711†	2130	...	1967	7285	Lacaille 2130	5·6	90·29	12	6 1 51·391	+ 2·3085	+ 0·002	0·000	0·000
712	898	349	1973	7314	19 Leporis.....	5·5	88·00	10	6 2 54·581	+ 2·6082	+ 0·002	—0·0015	— 0·003
713	...	...	...	7374	Brisbane 1162	8*	89·25	6	6 4 38·200	+ 0·5865	+ 0·002	...	...
714	...	...	...	...	Lalande 11771.....	8·3†	88·57	4	6 5 33·835	+ 3·0291	+ 0·002	...	...
715	2203	...	2003	7413	Doradûs.....η^1	5·8	90·37	9	6 6 1·612	+ 0·0675	+ 0·001	...	...
716†	1766	...	2000	7410	Lacaille 1766	5·0	89·77	11	6 6 3·037	+ 0·5448	+ 0·002	0·000	0·000
717	...	...	...	...	Cape (1880) 2901	7½‡	93·11	18	6 6 18·540	—43·575	— 0·822	...	...
718	2192	...	...	7428	Lacaille 2192	7¼*	92·31	5	6 6 53·764	+ 1·4003	+ 0·002	...	...
719†	2201	...	2013	7467	Pictoris .....δ	4·8	89·58	13	6 8 9·279	+ 1·1684	+ 0·002	—0·0054	— 0·002
720	909	22	2002	...	7 Geminorum .....*seq.* η	Var.	88·67	9	6 8 14·269	+ 3·6269	+ 0·001	—0·0050	— 0·007
721	2512	...	2085	7601	Lacaille 2512	6·8	91·72	45	6 8 46·710	—15·700	— 0·170	—0·022†	+ 0·038
722	2227	...	2025	7513	Doradûs .....ν	5·2	89·10	6	6 9 26·640	— 0·3747	— 0·001	...	...
723*	920	35	2015	7495	5 Monocerotis.....	4·0	90·16	8	6 9 29·426	+ 2·9264	+ 0·002	—0·0010	0·000
724	...	...	...	...	C.P.D. — 39° No. 881...	9·7‡	87·08	3	6 10 43·380	+ 1·9749	+ 0·002	...	...
725	...	...	...	7548	Lalande 12000.....	5·9	87·89	9	6 11 13·456	+ 2·6749	+ 0·002	...	...
726†	2213	65	2034	7586	Columbæ .....κ	4·5	88·75	11	6 12 38·292	+ 2·1342	+ 0·002	—0·0015	— 0·002
727	...	...	...	...	C.P.D. — 40° No. 961...	8·3‡	94·97	4	6 12 57·560	+ 1·9326	+ 0·002	...	...
728†	2283	...	2053	7639	Mensæ .....α	5·2	89·77	12	6 13 30·811	— 1·8106	— 0·011	+0·017?	+ 0·004
729	...	...	...	...	Lalande 12082.....	7·0†	89·09	4	6 15 55·040	+ 4·2146	— 0·002	...	...
730†	933*	81	2051	7681	1 Canis Majoris .....ζ	3·3	88·77	17	6 16 5·409	+ 2·3022	+ 0·002	—0·0004	0·000
731	929	74	2047	...	13 Geminorum .....μ	3·2	88·25	8	6 16 18·308	+ 3·6268	0·000	+0·0037	+ 0·007
732	926	66	2044	...	46 Aurigæ .....ψ^1	5·1	...	...	6 16 25	+ 4·6252	— 0·004	+0·0004	...
733	...	...	...	...	Lalande 12184.....	7·5†	91·64	6	6 16 56·455	+ 3·1719	+ 0·001	...	...
734*	936	92	2061	7719	2 Canis Majoris .....β	2·0	89·52	25	6 17 51·299	+ 2·6420	+ 0·002	—0·0015	— 0·001
735	931	84	2059	...	8 Monocerotis.....	4·4	90·13	15	6 17 56·366	+ 3·1808	+ 0·001	—0·0012	0·000

703, 719, 732. B.A.C. gives no letter.

716. Lacaille's R.A. is 1h. too small, and the star is erroneously designated μ Doradûs.

No.	Mean Date. 1800+	No. of Obs.	Mean Dec. 1890·0.	Sec. of Final Dec.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_δ.	Corr. for μ_δ to 1890·0.	Fallows and Henderson.	Johnson.	Cape Catalogues. 1840.	1850.	1860.	1880.	1885.	Melbourne, 1870 and 1880.
			° ′ ″	″	″	″	″	″								
701	90·57	6	+ 45 35 21·50	20·49	+ 0·312	— 0·65	...	...	...	...	...	...	...	...	...	...
702	94·94	3	— 42 52 22·51	22·67	+ 0·220	— 0·27	...	...	...	...	...	...	...	2750	...	...
703*	89·10	18	— 79 22 46·17	46·24	+ 0·201	+ 0·59	+ 0·097	+0·09	...	...	650	945	...	2758	400	288
704	89·59	6	+ 38 29 31·33	30·64	+ 0·088	— 0·60	— 0·05	—0·02	...	..	...	...	...	...	...	...
705	86·87	5	+ 4 9 51·30	51·08	+ 0·073	— 0·46	— 0·013	—0·04	...	...	...	...	...	...	402	*341*
706*	94·96	3	— 43 1 25·33	25·50	+ 0·026	— 0·27	...	...	...	...	...	...	...	...	...	...
707	89·92	59	+ 14 46 51·50	51·11	— 0·112	— 0·50	— 0·013	0·00	...	...	...	936	224	2779	407	289*
708	91·96	12	— 45 2 10·53	10·76	— 0·114	— 0·25	+ 0·235	—0·46	...	...	645	940	225	2783	...	...
709†	88·35	8	— 45 4 43·13	43·31	— 0·131	— 0·25	+ 0·25†	+0·41	...	...	646	944	...	2789	...	...
710	91·09	6	— 6 11 25·32	25·74	— 0·141	— 0·43	...	...	...	...	...	...	...	..	...	...
711	90·29	12	— 29 44 48·29	48·65	— 0·162	— 0·34	— 0·07	+0·02	...	...	...	943	...	2793	...	...
712	88·01	11	— 19 9 12·47	12·71	— 0·255	— 0·38	+ 0·094	+0·19	...	...	...	947	...	2801	410	...
713	89·25	6	— 61 44 6·09	6·24	— 0·405	— 0·09	...	...	...	...	...	...	...	2823	...	...
714	88·39	6	— 1 51 41·36	41·66	— 0·487	— 0·44	...	...	...	...	...	...	...	...	...	...
715	90·37	9	— 66 1 26·61	26·90	— 0·526	— 0·01	..	...	...	...	663	965	...	2837	...	294
716*	89·77	11	— 62 8 5·16	5·38	— 0·529	— 0·08	— 0·08	—0·02	...	...	...	963	...	2836	...	293
717*	91·28	30	— 88 21 32·53	32·57	— 0·553	+ 6·35	...	...	...	...	...	...	...	2901	417	...
718	92·31	5	— 51 22 7·37	7·59	— 0·604	— 0·20	...	...	...	...	...	...	...	2843	...	...
719*	89·58	13	— 54 56 39·13	39·35	— 0·713	— 0·17	— 0·020	—0·01	...	...	665	967	231	2857	...	...
720†	88·08	12	+ 22 32 17·60	17·20	— 0·720	— 0·53	— 0·003	—0·01	...	...	662	964	229	2853	415	*345*
721*	90·96	121	— 85 55 46·35	46·47	— 0·767	+ 2·29	+ 0·004†	0·00	...	...	702	1008	235	2881	418	301*
722	89·10	6	— 68 49 10·60	10·81	— 0·827	+ 0·06	...	...	...	...	668	969	...	2869	...	...
723	90·16	8	— 6 14 29·63	29·84	— 0·830	— 0·43	— 0·033	+0·01	125	147	...	968	...	2868	416	*348*
724*	87·08	3	— 39 25 3·92	3·98	— 0·937	— 0·29	...	...	...	...	...	...	...	...	...	...
725	87·89	9	— 16 34 53·34	53·51	— 0·981	— 0·39	...	...	...	...	...	...	...	...	...	...
726	88·75	11	— 35 6 15·11	15·37	— 1·105	— 0·31	+ 0·067	+0·08	...	148	669	975	232	2892	...	*351*
727*	94·97	4	— 40 29 53·18	53·35	— 1·134	— 0·28	...	...	...	...	...	...	...	...	...	...
728	89·77	12	— 74 42 53·24	53·42	— 1·182	+ 0·26	— 0·22	—0·05	...	...	685	989	...	2903	...	...
729	89·76	6	+ 40 34 28·39	27·61	— 1·392	— 0·61	...	...	...	...	...	...	...	...	...	...
730	88·77	17	— 30 0 53·72	53·99	— 1·406	— 0·33	+ 0·017	+0·02	126*	149	680	988	234	2924	424	...
731	87·82	11	+ 22 34 10·22	9·83	— 1·425	— 0·53	— 0·101	—0·22	*153*	...	677	983	233	2923	425	302*
732*	93·00	12	+ 49 20 37·46	36·25	— 1·435	— 0·67	— 0·012	+0·04	...	...	...	...	...	...	...	...
733	91·64	6	+ 4 15 51·62	51·18	— 1·481	— 0·46	...	...	...	...	...	...	...	...	...	...
734	89·19	31	— 17 54 6·36	6·63	— 1·560	— 0·38	+ 0·003	0·00	127*	150	686	994	...	2940	427	*354*
735	89·67	24	+ 4 38 53·65	53·29	— 1·568	— 0·46	+ 0·010	0·00	...	...	...	...	...	...	428	...

706, 717. Magnitude from Cape observations.
709. $6^m{\cdot}5$, $9^m{\cdot}4$ 3″·6 226° 1895·1. Distance increasing; angle diminishing. Brighter star observed. Proper Motion from *Cincinnati Publications*, No. 12.
720. Var., 8½–11 1″·1 296°. Fainter star probably not seen. Limits of magnitude, 3·2–3·7 to 4·2. Period $231^d{\cdot}4$. Periodic inequality.
721. Proper Motion determined for this Catalogue.
724, 727. Magnitude from *Cordoba Durchmusterung*.
728. If R.A. of Cape 1850 be diminished 1^s, $\mu_\alpha = +\ 0^s{\cdot}029$.

No.	Bradley or Lacaille.	Piazzi. 1800.	B.A.C. 1850.	C.G.A. 1875.	Star's Name.	Mag.	Mean Date. 1800+	No. of Obs.	Mean R.A. 1890·0.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_α.	Corr. for μ_α to 1890·0.
									h m s	s	s	s	s
736	939*	95	2066	7731	3 Canis Majoris	3·8	86·95	6	6 18 5·557	+2·1944	+ 0·002	—0·0045	— 0·014
737	...	...	...	7756	Lalande 12278.....	5·5	88·71	5	6 19 2·488	+2·8021	+ 0·001	...	...
738	2426	...	...	7845	Lacaille 2426	7·4	88·44	11	6 19 51·370	—6·4128	— 0·090	...	...
739	2322	...	...	7820	Lacaille 2322	7¾*	90·95	6	6 20 9·925	—1·0460	— 0·011	...	...
740	2292	...	2093	7827	Pictoris .....ν	5·8	91·12	6	6 20 58·050	+1·0756	+ 0·001	...	...
741	...	...	...	...	C.P.D. — 41° No. 975...	9·5‡	87·10	2	6 21 11·240	+1·9114	+ 0·002	...	...
742	941	101	2084	...	16 Geminorum	6·8†	89·80	7	6 21 24·143	+3·5718	— 0·001	—0·0031	— 0·001
743	2291	...	2096	7843	Argûs .....α	—1·0	86·60	5	6 21 30·506	+1·3295	+ 0·001	+0·0013	+ 0·004
744	942	109	2090	...	18 Geminorum .....ν	4·0	90·35	12	6 22 25·923	+3·5642	— 0·001	—0·0022	+ 0·001
745*	948	116	2094	7856	10 Monocerotis	5·0	89·69	36	6 22 31·669	+2·9632	+ 0·001	—0·0011	0·000
746	...	...	...	...	Lalande 12385.....	7·1†	89·69	7	6 22 33·829	+3·1185	0·000	...	...
747	...	...	...	...	Lalande 12405.....	7·1†	89·29	6	6 23 36·137	+3·5040	— 0·001	...	...
748	2340	...	2119	7911	Doradûs .....π^1	5·6	90·32	6	6 23 40·537	—0·5658	— 0·009	...	...
749†	2295	136	2109	7904	Canis Majoris .....λ	4·6	90·21	11	6 24 5·452	+2·2252	+ 0·002	—0·0049	+ 0·001
750†	2368	...	2145	7985	Doradûs .....π^2	5·4	89·09	13	6 26 24·946	—0·5036	— 0·010	—0·002	— 0·002
751	2343	...	2146	8007	Lacaille 2343	5·3	90·78	12	6 27 34·013	+1·0460	— 0·001	...	...
752	959	146	2133	...	49 Aurigæ	4·9	88·34	13	6 28 16·367	+3·7811	— 0·003	—0·0007	— 0·001
753	2330	164	2147	8017	Lacaille 2330	5·9	88·42	14	6 28 31·934	+2·2453	+ 0·002	...	...
754	2341	172	2158	8057	Lacaille 2341	5·3	94·12	12	6 29 58·060	+2·1042	+ 0·002	...	...
755*	972	170	2160	8065	5 Canis Majoris ....ξ^2	4·4	88·40	5	6 30 26·794	+2·5134	+ 0·002	—0·0002	0·000
756	963	161	2155	...	51 Aurigæ	5·7	88·20	5	6 31 2·110	+4·1639	— 0·006	—0·0040	— 0·007
757	969	169	2163	...	24 Geminorum .....γ	2·0	88·33	21	6 31 21·422	+3·4646	— 0·001	+0·0023	+ 0·004
758	...	...	...	...	Lalande 12692.....	7·1†	90·55	7	6 31 31·214	+3·3286	— 0·001	...	...
759	...	...	...	8103	C.G.A. 8103	7¾*	94·96	3	6 31 46·340	+2·0467	+ 0·002	...	...
760	978	180	2171	8101	7 Canis Majoris .....ν^2	4·3	87·12	6	6 31 53·155	+2·6124	+ 0·001	+0·0028	+ 0·008
761	2365	...	...	8111	Lacaille 2365	6·9*	91·85	7	6 32 2·236	+2·1109	+ 0·002	...	...
762†	2383	...	2176	8133	Carinæ .....N	4·5	90·03	12	6 32 33·041	+1·3236	0·000	—0·0040	0·000
763†	2386	205	2188	8181	Argûs .....ν	3·2	88·12	11	6 34 23·720	+1·8356	+ 0·001	—0·0007	— 0·001
764	981	193	2185	...	15 Monocerotis .....(S)	Var.	89·00	10	6 34 55·185	+3·3054	— 0·001	—0·0003	0·000
765	...	...	...	...	Lalande 12773.....	7·0†	89·62	2	6 34 59·425	+4·1424	— 0·007	...	...
766	2502	...	...	8258	Lacaille 2502	7½*	91·42	12	6 35 19·614	—3·6123	— 0·075	...	...
767	983	204	2194	...	27 Geminorum .....ϵ	3·2	88·75	12	6 37 9·855	+3·6945	— 0·004	—0·0018	— 0·002
768	...	...	...	...	Lalande 12925.....	7·2†	89·29	6	6 38 17·395	+3·6307	— 0·003	...	...
769	...	...	...	...	C.P.D. — 34° No. 1017..	8·0‡	94·96	3	6 39 5·190	+2·1629	+ 0·002	...	...
770	989	217	2206	...	31 Geminorum .....ξ	3·4	89·33	36	6 39 6·936	+3·3770	— 0·002	—0·0087	— 0·006

736. δ Columbæ in C.G.A.

740, 749, 762. B.A.C. gives no letter.

755. Fundamental star for Southern Zones.

No.	Mean Date. 1800+	No. of Obs.	Mean Dec. 1890·0.	Sec. of Final Dec.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_δ.	Corr. for μ_δ to 1890·0.	Fallows and Henderson.	Johnson.	Cape Catalogues. 1840.	1850.	1860.	1880.	1885.	Melbourne, 1870 and 1880.
			° ′ ″	″	″	″	″	″								
736*	86·95	6	— 33 22 51·94	52·09	— 1·582	— 0·32	— 0·076	—0·23	...	151	687	996	...	2945	...	*355*
737	88·71	5	— 11 28 16·71	17·01	— 1·664	— 0·41	...	...	...	...	...	...	...	...	...	...
738	87·39	29	— 82 0 26·16	26·25	— 1·735	+ 0·93	...	...	...	...	...	...	...	2985	430	...
739	90·95	6	— 72 4 54·09	54·37	— 1·762	+ 0·15	...	...	...	...	...	...	...	2977	...	...
740*	91·12	6	— 56 18 38·97	39·30	— 1·832	— 0·15	...	...	...	...	696	1014	...	2982	...	...
741*	87·10	2	— 41 5 47·63	47·69	— 1·851	— 0·28	...	...	...	...	...	...	...	...	...	...
742	89·80	7	+ 20 33 42·25	41·73	— 1·870	— 0·52	+ 0·005	0·00	...	...	...	...	...	...	...	...
743	86·60	5	— 52 38 8·70	8·81	— 1·880	— 0·19	+ 0·008	+0·03	128*	152	697	1016	238	2992	431	304*
744	90·35	12	+ 20 16 51·98	51·48	— 1·960	— 0·52	— 0·006	0·00	...	...	...	1012	237	2994	...	...
745	89·57	47	— 4 41 41·06	41·31	— 1·969	— 0·43	+ 0·014	+0·01	...	...	...	1015	...	2997	433	*359*
746	89·69	7	+ 1 58 51·81	51·41	— 1·971	— 0·45	...	...	...	...	...	...	...	...	...	...
747	89·29	6	+ 17 58 42·33	41·88	— 2·061	— 0·51	...	...	...	...	...	...	...	...	...	...
748	90·32	6	— 69 55 23·81	24·09	— 2·069	+ 0·08	— 0·06*	+0·02	...	...	709	1031	240	3015	...	308
749*	90·21	11	— 32 30 40·26	40·59	— 2·104	— 0·32	+ 0·021	0·00	...	153	703	1027	239	3014	...	...
750	89·09	13	— 69 37 37·83	37·98	— 2·306	+ 0·07	+ 0·21	+0·19	...	...	722	1044	242	3034	...	...
751	90·78	12	— 56 46 39·44	39·77	— 2·406	— 0·15	...	...	...	...	721	1045	...	3050	...	...
752	88·34	13	+ 28 6 26·79	26·33	— 2·467	— 0·54	— 0·014	—0·02	...	...	712	...	...	3054	...	*364*
753	88·42	14	— 31 56 56·53	56·74	— 2·490	— 0·32	...	...	...	...	719	1046	...	3057	...	...
754	94·12	11	— 36 8 59·61	59·69	— 2·614	— 0·30	...	...	...	...	726	1051	...	3070	...	311
755*	88·00	7	— 22 52 41·03	41·26	— 2·656	— 0·36	+ 0·020	+0·04	...	154	727	1052	...	3076	437	*366*
756	89·83	12	+ 39 29 14·19	13·42	— 2·707	— 0·60	— 0·096	—0·02	...	...	...	...	...	...	...	...
757	89·68	25	+ 16 29 33·24	32·87	— 2·735	— 0·60	— 0·035	—0·01	130	...	...	1054	243	3087	439	313*
758	90·55	7	+ 10 56 46·83	46·33	— 2·749	— 0·48	...	...	...	...	...	...	...	...	...	...
759	94·96	3	— 37 46 2·34	2·52	— 2·771	— 0·30	...	...	...	...	...	...	...	...	...	...
760	87·12	6	— 19 9 44·51	44·70	— 2·781	— 0·38	— 0·041	—0·12	...	155	...	1062	...	3094	440	...
761	92·14	6	— 35 59 43·24	43·53	— 2·794	— 0·30	...	...	...	...	...	...	...	3098	...	...
762*	90·03	12	— 52 53 9·43	9·71	— 2·839	— 0·19	— 0·013	0·00	...	...	736	1065	245	3103	...	...
763	88·03	11	— 43 5 59·20	59·37	— 2·999	— 0·26	— 0·015	—0·03	132*	156	742	1072	246	3124	441	314
764†	88·50	12	+ 9 59 49·18	48·80	— 3·043	— 0·48	0·000	0·00	...	...	...	...	...	...	442	...
765	90·59	6	+ 38 59 52·85	52·08	— 3·049	— 0·60	...	...	...	...	...	...	...	...	...	...
766	92·23	12	— 78 49 17·76	17·89	— 3·079	+ 0·52	...	...	...	...	...	...	...	3143	...	...
767	88·62	13	+ 25 14 22·09	21·63	— 3·238	— 0·53	— 0·005	—0·01	...	...	743	1075	247	...	447	...
768	89·11	7	+ 22 56 53·46	52·99	— 3·334	— 0·52	...	...	...	...	...	...	...	...	...	...
769*	94·96	3	— 34 37 17·32	17·50	— 3·403	— 0·31	...	...	...	...	...	...	...	...	...	...
770	89·65	43	+ 13 0 49·10	48·72	— 3·406	— 0·48	— 0·195	—0·07	...	...	...	...	...	3165	449	*373*

741, 769. Magnitude from *Cordoba Durchmusterung*.
764. Var., $8^m·7$ 3″·0 210° 1868·74. Fainter star probably not seen. Limits of magnitude, 4·9–5·4. Period doubtful.

No.	Bradley or Lacaille.	Piazzi. 1800.	B.A.C. 1850.	C.G.A. 1875.	Star's Name.	Mag.	Mean Date. 1800+	No. of Obs.	Mean R.A. 1890·0.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_α.	Corr. for μ_α to 1890·0.
									h m s	s	s	s	s
771*	994	227	2213	8348	9 Canis Majoris .....a	—1·4	...	9	6 40 18	+2·6810	+ 0·001	—0·0372	...
772	2437	239	2218	8379	Lacaille 2437	6·5*	94·13	12	6 41 15·860	+2·2612	+ 0·002	—0·011†	+ 0·045
773*	995	234	2222	...	18 Monocerotis.....	4·8	88·00	21	6 42 7·535	+3·1306	— 0·001	—0·002	— 0·004
774	2469	...	2234	8464	Lacaille 2469	7·4*	88·38	18	6 43 45·236	+1·6308	0·000	...	...
775	...	258	...	8509	Piazzi VI. 258.....	7*	91·13	2	6 45 25·410	+2·2401	+ 0·001	...	...
776	1003	248	2237	...	34 Geminorum .....θ	3·7	89·33	12	6 45 32·263	+3·9596	— 0·007	—0·0002	0·000
777†	1008*	259	2246	8518	13 Canis Majoris .....κ	3·9	88·90	13	6 45 43·886	+2·2415	+ 0·001	—0·0017	— 0·002
778†	2525	...	2260	8570	Pictoris .....a	3·3	88·12	12	6 47 3·696	+0·6293	— 0·006	—0·0123	— 0·023
779†	2505	...	2256	8568	Argûs .....τ	2·8	90·96	13	6 47 12·352	+1·4859	0·000	+0·0033	— 0·003
780	2493	271	2258	8577	Lacaille 2493	6·1	88·14	5	6 47 49·756	+2·1189	+ 0·001	...	...
781	...	...	...	...	C.P.D. — 44° No. 1128..	9·3‡	87·14	4	6 47 59·630	+1·7812	+ 0·001	...	...
782	1012	275	2263	8602	15 Canis Majoris	4·4	88·51	17	6 48 47·559	+2·5946	+ 0·001	—0·0026	— 0·004
783*	1011	274	2264	8614	14 Canis Majoris .....θ	4·2	87·80	30	6 49 4·780	+2·7972	0·000	—0·0105	— 0·023
784†	2648	...	2290	8667	Mensæ .....ζ	5·6	88·09	13	6 49 11·490	—4·9011	— 0·160	—0·006	— 0·011
785	2516	...	...	8623	Lacaille 2516	8*	90·29	6	6 49 14·317	+1·9547	+ 0·001	...	...
786	2497	...	...	8624	Lacaille 2497	7*	94·15	12	6 49 22·640	+2·4800	+ 0·001	...	...
787	1006	263	2261	...	Aurigæ .....ψ^{10}	4·7	90·19	1	6 49 35·720	+4·3890	— 0·014	—0·0046	+ 0·001
788	...	...	...	...	C.P.D. — 44° No. 1148..	8·7‡	87·14	3	6 49 57·990	+1·7766	+ 0·001	...	...
789†	2597	...	2297	8738	Volantis .....ι	5·5	89·48	12	6 52 42·372	—0·6709	— 0·028	—0·001	— 0·001
790	2545	...	...	8732	Lacaille 2545	6·6*	88·47	9	6 53 18·949	+2·3985	+ 0·001	...	...
791*	2538	303	2291	8747	Piazzi VI. 303.....	5·4	88·74	5	6 54 5·384	+2·4590	+ 0·001	—0·0018	— 0·002
792†	1023*	304	2293	8752	21 Canis Majoris .....ε	1·5	87·27	11	6 54 18·136	+2·3574	+ 0·001	—0·0012	— 0·003
793	...	...	...	8782	C.G.A. 8782	8½*	88·63	6	6 55 3·757	+1·1643	— 0·003	...	...
794	...	...	...	...	Lalande 13537.....	7·5†	90·19	1	6 56 6·450	+4·3797	— 0·015	...	...
795	...	305	2301	...	Piazzi VI. 305.....	6·0	90·50	12	6 56 31·001	+3·8066	— 0·008	+0·013†	— 0·007
796	1027*	320	2309	8839	22 Canis Majoris	3·5	88·69	7	6 57 20·206	+2·3902	+ 0·001	—0·0023	— 0·003
797	1024	312	2305	...	43 Geminorum .....ζ	Var.	89·00	12	6 57 35·079	+3·5626	— 0·005	—0·0011	— 0·001
798	2606	...	...	8876	Lacaille 2606	8*	90·98	6	6 58 9·902	+1·0987	— 0·004	...	...
799†	1029*	323	2318	8873	24 Canis Majoris .....o^2	3·1	87·57	7	6 58 25·824	+2·5054	+ 0·001	—0·0012	— 0·003
800	1025	317	2313	...	44 Geminorum.....	5·9	88·99	6	6 58 41·025	+3·6162	— 0·006	—0·0010	— 0·001
801*	1028	325	2319	8880	23 Canis Majoris .....γ	4·1	89·59	34	6 58 46·899	+2·7146	0·000	—0·0018	— 0·001
802	...	...	...	...	Lalande 13704.....	6·1	90·44	6	7 0 8·890	+3·9493	— 0·010	...	...
803	2608	336	2328	8936	Lacaille 2608	5·5	94·14	12	7 0 34·820	+1·8498	+ 0·001	—0·012†	+ 0·050
804	...	...	...	8941	C.G.A. 8941	7¾*	94·96	3	7 0 48·660	+2·2863	+ 0·001	...	...
805	...	...	...	...	Lalande 13731.....	6·6†	91·10	6	7 1 0·350	+3·9427	— 0·010	...	...

771. The separate observations are given in Appendix II.
780. u Puppis in B.A.C.
787. 16 Lyncis in B.A.C.
791. Fundamental star for Southern Zones. The name given in *Ast. Nach.* 2890 is retained.
796. σ Canis Majoris in C.G.A.

No.	Mean Date. 1800+	No. of Obs.	Mean Dec. 1890·0.	Sec. of Final Dec.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_δ.	Corr. for μ_δ to 1890·0.	Fallows and Henderson.	Johnson.	Cape Catalogues. 1840.	1850.	1860.	1880.	1885.	Melbourne, 1870 and 1880.
			° ′ ″	″	″	″	″	″								
771†	...	8	− 16 33 ...	...	− 3·508	− 0·38	− 1·199	...	133*	157	755	1085	249	3176	452	316*
772*	94·13	12	− 31 40 9·14	9·23	− 3·591	− 0·32	− 0·34†	+1·40	...	...	759	1089	...	3187	...	...
773	88·04	25	+ 2 31 55·20	54·93	− 3·666	− 0·45	− 0·012	−0·02	...	...	...	...	...	3194	453	*375*
774	88·38	18	− 47 41 5·20	5·39	− 3·805	− 0·23	...	...	...	...	765	1100	...	3215	...	*377*
775	91·13	2	− 32 24 57·69	58·08	− 3·948	− 0·32	...	...	...	...	...	...	...	3230	...	379
776	89·33	12	+ 34 5 35·13	34·49	− 3·958	− 0·56	− 0·032	−0·02	...	...	...	...	...	...	457	...
777	88·90	13	− 32 22 54·41	54·68	− 3·975	− 0·32	+ 0·018	+0·02	135	158	767	1106	252	3234	459	320
778	88·28	13	− 61 49 23·87	24·01	− 4·089	− 0·09	+ 0·278	+0·48	...	161	778	1114	254	3253	460	322
779	90·96	13	− 50 29 1·45	1·79	− 4·102	− 0·21	− 0·096	+0·09	...	159	774	1111	...	3252	461	321
780*	88·14	5	− 36 5 46·90	47·05	− 4·155	− 0·30	...	...	...	...	775	1112	...	3257	...	*378*
781*	87·14	4	− 44 38 21·85	21·90	− 4·169	− 0·25	...	...	...	...	...	...	...	...	...	...
782	88·51	17	− 20 5 19·28	19·54	− 4·238	− 0·37	+ 0·029	+0·04	...	...	...	1115	...	3267	...	...
783	88·16	31	− 11 54 4·32	4·61	− 4·262	− 0·40	− 0·003	−0·01	...	160	...	1116	...	3270	463	*379*
784*	87·57	41	− 80 41 47·74	47·77	− 4·270	+ 0·70	+ 0·076	+0·18	...	...	790	1133	257	3290	465	323*
785	90·29	6	− 40 33 28·60	28·91	− 4·275	− 0·28	...	...	...	...	...	...	...	3276	...	...
786	94·15	12	− 24 24 6·75	6·87	− 4·288	− 0·35	...	...	...	...	...	...	...	3277	...	...
787*	91·00	6	+ 45 14 11·37	10·32	− 4·306	− 0·62	+ 0·007	−0·01	...	...	...	...	...	...	...	...
788*	87·14	3	− 44 47 42·60	42·65	− 4·337	− 0·25	...	...	...	...	...	...	...	...	...	...
789	89·48	12	− 70 49 34·09	34·32	− 4·571	+ 0·10	+ 0·01	+0·01	...	...	791	1138	...	3315	...	...
790	88·47	9	− 27 23 26·90	27·16	− 4·623	− 0·34	...	...	...	...	...	...	...	3316	...	...
791*	88·74	5	− 25 15 54·52	54·78	− 4·688	− 0·35	+ 0·042	+0·05	...	...	...	1134	...	3324	470	*384*
792	87·37	8	− 28 49 21·83	22·06	− 4·707	− 0·33	− 0·002	−0·01	138*	164	787	1135	258	3331	471	324*
793	88·63	6	− 55 45 59·47	59·64	− 4·772	− 0·16	...	...	...	...	...	...	...	3342	...	...
794	90·95	6	+ 45 13 24·51	23·48	− 4·860	− 0·62	...	...	...	...	...	...	...	...	...	...
795*	90·50	12	+ 29 31 15·40	14·78	− 4·895	− 0·54	− 0·80†	+0·40	...	...	...	...	...	...	...	...
796*	88·69	7	− 27 46 39·89	40·21	− 4·964	− 0·34	− 0·012	−0·02	139	165	795	1146	261	3370	477	...
797*	89·18	11	+ 20 43 51·84	51·37	− 4·986	− 0·50	+ 0·001	0·00	...	...	794	1143	260	...	479	...
798	90·98	6	− 56 45 2·87	3·20	− 5·035	− 0·15	...	...	...	...	...	...	...	3382	...	...
799	87·51	8	− 23 40 22·72	22·88	− 5·058	− 0·35	+ 0·004	+0·01	...	166	798	1151	...	3383	481	...
800	88·99	6	+ 22 48 5·96	5·49	− 5·079	− 0·51	− 0·005	−0·01	...	...	...	...	...	...	...	...
801	89·21	43	− 15 28 16·28	16·57	− 5·087	− 0·38	− 0·003	0·00	140	167	...	1152	262	3385	482	327*
802	90·44	6	+ 34 10 42·10	41·44	− 5·203	− 0·55	...	...	...	...	...	...	...	...	...	...
803*	94·14	12	− 43 27 18·55	18·62	− 5·239	− 0·26	+ 0·36†	−1·49	...	...	803	1157	...	3405	...	...
804	94·96	3	− 31 21 36·45	36·65	− 5·259	− 0·32	...	...	...	...	...	...	...	...	...	...
805	91·10	6	+ 34 0 13·89	13·20	− 5·275	− 0·55	...	...	...	...	...	...	...	...	...	...

771. Binary.
781, 788. Magnitude from Cape observations.
797. Limits of magnitude, 3·7–4·5. Period $10^d \cdot 154$.

772, 795, 803. Proper Motion from *Cincinnati Publications*, No. 12.
784. R.A. observed only *S.P.*

No.	Bradley or Lacaille.	Piazzi. 1800.	B.A.C. 1850.	C.G.A. 1875.	Star's Name.	Mag.	Mean Date. 1800+	No. of Obs.	Mean R.A. 1890·0.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_a.	Corr. for μ_a to 1890·0.
									h m s	s	s	s	s
806	2624	...	2332	8948	Puppis .....H	5·2	89·65	12	7 1 2·009	+ 1·5665	0·000	...	...
807	...	...	...	8956	Lalande 13810.....	7*	89·49	6	7 1 28·762	+ 2·7932	0·000	...	...
808	...	...	...	...	Lalande 13764.....	6·8†	89·68	2	7 2 2·695	+ 4·0339	— 0·012	...	...
809†	2642	...	2339	8984	Lacaille 2642	5·3	89·68	13	7 2 15·198	+ 1·1207	— 0·004	—0·0039	— 0·001
810	2625	...	2335	8980	Lacaille 2625	6·5*	94·14	4	7 2 15·700	+ 2·0585	+ 0·001	...	...
811†	2758	...	2370	9054	Mensæ.....θ	5·5	91·13	21	7 3 30·996	— 3·7076	— 0·146	—0·008	+ 0·009
812	...	...	...	9011	C.G.A. 9011	8¾*	87·12	4	7 3 31·010	+ 2·3203	+ 0·001	...	...
813†	1042*	2	2345	9021	25 Canis Majoris .....δ	1·9	87·77	13	7 3 55·097	+ 2·4396	+ 0·001	—0·0011	— 0·002
814	1032	338	2338	...	63 Aurigæ.....	5·2	88·33	9	7 4 5·259	+ 4·1317	— 0·014	+0·0030	+ 0·005
815	...	...	...	...	C.Z. VII. 260	8½*	87·13	5	7 4 6·620	+ 1·7212	0·000	...	...
816	1034	343	2343	...	47 Geminorum.....	5·5	89·30	7	7 4 33·680	+ 3·7278	— 0·008	—0·0018	— 0·001
817	2651	...	2353	9046	Lacaille 2651	6·0	88·82	6	7 4 35·037	+ 1·4409	— 0·002	...	...
818	2641	13	2351	9057	Lacaille 2641	5·9	94·11	4	7 5 11·020	+ 2·4727	+ 0·001	...	...
819	1047	15	2358	9083	22 Monocerotis.....	4·0	88·31	13	7 6 14·862	+ 3·0655	— 0·002	—0·0014	— 0·002
820	...	...	...	...	C.P.D. — 46° No. 1257..	9·5‡	87·13	4	7 6 59·500	+ 1·7279	0·000	...	...
821	2668	...	2378	9148	Lacaille 2668	6¼*	94·13	4	7 8 31·340	+ 2·1319	+ 0·001	...	...
822†	2687	...	2389	9176	Puppis I	4·5	88·72	12	7 9 25·404	+ 1·7243	0·000	—0·0155	— 0·020
823	2746	...	2400	9206	Volantis .....γ^2	4·5*	87·97	11	7 9 40·609	— 0·4939	— 0·033	...	...
824	...	...	...	9186	C.G.A. 9186.....	7¾*	87·10	2	7 9 50·560	+ 2·2924	+ 0·001	...	...
825	2690	54	2392	9194	Puppis .....L^1	5·1	94·14	12	7 9 55·840	+ 1·7978	0·000	...	...
826	1061*	...	2393	9205	Bradley 1061	6·5*	94·18	4	7 10 24·420	+ 2·4275	+ 0·001	—0·0026	+ 0·011
827	...	46	...	9207	Piazzi VII. 46	6·3*	87·63	6	7 10 30·858	+ 2·8389	0·000	...	...
828	...	...	...	...	Gilliss P.Z. 4870.....	9·0‡	91·46	2	7 10 47·478	—25·2658	— 3·514	...	...
829	1058	50	2398	...	54 Geminorum .....λ	3·6	89·44	55	7 11 46·261	+ 3·4550	— 0·006	—0·0039	— 0·002
830	2697	59	2405	9255	Lacaille 2697	4·9	94·96	3	7 12 10·360	+ 2·4055	+ 0·001	...	...
831	2760	...	...	9271	Lacaille 2760	7½*	88·86	6	7 12 16·152	— 0·0093	— 0·023	...	...
832†	2720	68	2414	9288	Argûs.....π	2·5	88·03	10	7 13 15·393	+ 2·1196	+ 0·001	—0·0017	— 0·003
833	...	...	...	...	Lalande 14150.....	5·6	89·63	2	7 13 19·545	+ 4·3608	— 0·020	...	...
834	1062	57	2410	...	55 Geminorum .....δ	3·7	87·00	8	7 13 33·209	+ 3·5898	— 0·007	—0·0025	— 0·008
835*	1067*	71	2417	9311	29 Canis Majoris	4·8	90·16	12	7 14 5·517	+ 2·4986	+ 0·001	—0·0014	0·000
836	2733	74	2422	9326	Puppis .....v^1	4·8	87·47	6	7 14 23·720	+ 2·1337	+ 0·001	...	...
837	...	...	...	9325	C.G.A. 9325	Var.	90·15	10	7 14 29·480	+ 2·7047	0·000	...	...
838	1065	69	2423	...	56 Geminorum.....	5·0	89·40	4	7 15 27·335	+ 3·5492	— 0·007	—0·0053	— 0·003
839	...	...	...	9363	Lalande 14326.....	6·9*	89·09	1	7 16 10·700	+ 2·9466	— 0·001	...	...
840	2747	...	...	9374	Lacaille 2747	6·7*	94·14	4	7 16 27·000	+ 2·4356	+ 0·001	...	...

817. P Carinæ in B.A.C. 823. γ Volantis in B.A.C. 835. Fundamental star for Southern Zones. 836. B.A.C. gives no letter.

No.	Mean Date. 1800+	No. of Obs.	Mean Dec. 1890·0.	Sec. of Final Dec.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_δ.	Corr. for μ_δ to 1890·0.	Fallows and Henderson.	Johnson.	Cape Catalogues. 1840.	1850.	1860.	1880.	1885.	Melbourne, 1870 and 1880.
			° ′ ″	″	″	″	″	″								
806	89·65	12	— 49 25 23·72	23·97	— 5·277	— 0·22	...	...	...	...	805	1159	...	3410	...	...
807	89·49	6	— 12 13 29·61	29·97	— 5·315	— 0·39	...	...	...	...	...	...	...	...	...	...
808	90·65	6	+ 36 44 13·13	12·38	— 5·363	— 0·56	...	...	...	...	...	...	...	...	...	...
809	89·68	13	— 56 34 58·01	58·24	— 5·380	— 0·16	— 0·020	—0·01	...	...	813	1164	...	3425	...	...
810	94·14	4	— 38 12 50·18	50·26	— 5·381	— 0·29	...	...	...	...	...	1161	...	3423	488	...
811	91·73	22	— 79 15 40·97	41·14	— 5·487	+ 0·52	— 0·02	+0·03	...	...	...	1178	...	3444	...	...
812	87·12	4	— 30 19 44·62	44·71	— 5·487	— 0·32	...	...	...	...	...	...	...	...	...	...
813	87·83	12	— 26 13 8·29	8·47	— 5·520	— 0·34	+ 0·004	+0·01	143	168	817	1167	265	3438	490	*393*
814	89·00	11	+ 39 29 57·67	56·98	— 5·534	— 0·58	+ 0·020	+0·02	...	...	...	...	...	...	491	*392*
815	87·13	5	— 46 26 36·16	36·22	— 5·537	— 0·24	...	...	...	...	...	...	...	...	...	...
816	89·30	7	+ 27 2 12·64	12·10	— 5·575	— 0·52	— 0·045	—0·03	...	...	815	...	266	...	...	...
817*	88·82	6	— 51 47 45·06	45·25	— 5·576	— 0·20	...	...	...	...	820	1170	...	3447	...	...
818	94·11	4	— 25 3 12·07	12·17	— 5·627	— 0·34	...	...	...	...	818	1169	...	3451	...	...
819	88·03	15	— 0 18 39·73	40·02	— 5·716	— 0·43	+ 0·027	+0·05	...	170	822	1174	...	3461	...	...
820*	87·14	5	— 46 24 19·89	19·95	— 5·778	— 0·24	...	...	...	...	...	...	...	...	...	...
821†	94·13	4	— 36 21 33·13	33·21	— 5·906	— 0·29	...	...	...	...	825	1184	...	3489	...	...
822	88·72	12	— 46 34 33·16	33·36	— 5·981	— 0·24	+ 0·079	+0·10	...	172	834	1189	...	3493	...	332
823*	88·06	12	— 70 19 12·44	12·57	— 6·003	+ 0·07	...	...	...	174	840	1199	...	3503	496	335
824	87·15	2	— 31 27 13·21	13·31	— 6·016	— 0·32	...	...	...	...	...	...	...	...	...	...
825	94·14	12	— 44 59 31·09	31·14	— 6·025	— 0·25	...	...	...	173	836	1191	...	3501	...	333
826	94·18	4	— 26 50 46·50	46·62	— 6·063	— 0·33	— 0·16	+0·67	...	...	...	1192	...	3509	...	...
827	87·63	6	— 10 23 28·75	28·95	— 6·073	— 0·39	...	...	...	...	...	...	...	3510	...	...
828*	91·46	2	— 87 25 35·94	35·92	— 6·095	+ 3·51	...	...	...	...	...	...	...	...	...	...
829	90·21	71	+ 16 44 17·61	17·19	— 6·177	— 0·48	— 0·026	+0·01	144	...	...	...	...	...	497	...
830	94·96	3	— 27 41 13·45	13·65	— 6·211	— 0·33	...	...	...	...	843	1204	...	3534	498	...
831	88·86	6	— 67 35 11·67	11·81	— 6·219	0·00	...	...	...	...	...	...	...	3540	...	...
832	87·86	11	— 36 54 0·74	0·91	— 6·301	— 0·29	+ 0·006	+0·01	145*	175	850	1210	272	3550	499	338
833	90·52	5	+ 45 25 51·69	50·65	— 6·308	— 0·60	...	...	...	...	...	...	...	...	...	...
834	86·91	11	+ 22 11 3·35	2·95	— 6·326	— 0·49	+ 0·003	+0·01	*152*	...	846	1207	271	3551	500	337*
835*	90·16	12	— 24 21 30·07	30·42	— 6·370	— 0·34	+ 0·001	0·00	...	...	852	1212	...	3560	502	*402*
836*	87·47	6	— 36 32 1·76	1·84	— 6·396	— 0·29	...	...	...	...	854	1216	...	3566	...	...
837*	89·99	12	— 16 11 21·15	21·51	— 6·403	— 0·37	...	...	...	...	...	...	...	...	...	...
838	89·40	4	+ 20 39 2·27	1·76	— 6·483	— 0·49	— 0·008	0·00	...	...	...	...	...	...	...	...
839	89·09	1	— 5 41 24·56	24·93	— 6·544	— 0·40	...	...	...	...	...	...	...	...	...	...
840	94·14	4	— 26 45 28·26	28·36	— 6·566	— 0·33	...	...	...	...	...	...	...	3583	...	...

820. Magnitude from Cape observations.

821. $6^{m}\cdot5$, $8^{m}\cdot1$ $2''\cdot6$ 65°. Fainter star probably not seen.

828. Magnitude from Cape observations. Observed only *S.P.*

837. R Canis Majoris. Limits of Magnitude, 5·9–6·7. Period ($1^{d.}$ $3^{h.}$ $15^{m.}$ $46^{s}\cdot0$) *Algol* type.

No.	Bradley or Lacaille.	Piazzi. 1800.	B.A.C. 1850.	C.G.A. 1875.	Star's Name.	Mag.	Mean Date. 1800+	No. of Obs.	Mean R.A. 1890·0.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_α.	Corr. for μ_α to 1890·0.
									h m s	s	s	s	s
841†	2809	...	2447	9407	Volantis .....δ	3·9	90·21	11	7 16 52·957	— 0·0140	— 0·025	—0·0010	0·000
842	...	86	2437	9394	Piazzi VII. 86	5·8	88·92	14	7 17 1·707	+ 2·9449	— 0·001	...	...
843	2769	99	2449	9455	Lacaille 2769	5·6	94·12	4	7 18 48·320	+ 2·2948	+ 0·001	...	...
844	1072	90	2442	...	60 Geminorum .....ι	4·0	88·27	15	7 18 53·678	+ 3·7420	— 0·010	—0·0097	— 0·017
845	...	87	...	...	Piazzi VII. 87	6·7†	...	...	7 19 10	+ 4·2653	— 0·020	...	...
846†	1081*	104	2458	9476	31 Canis Majoris .....η	2·4	87·69	13	7 19 44·644	+ 2·3733	+ 0·001	—0·0007	— 0·002
847	2838	...	...	9518	Lacaille 2838	8·2	90·13	6	7 20 13·360	— 0·3774	— 0·036	...	...
848	2793	108	2461	9503	Lacaille 2793	5·3	94·15	4	7 20 30·860	+ 2·3005	+ 0·001	...	...
849	...	...	...	...	C.P.D. — 32° No. 1453..	9·0‡	87·15	4	7 20 51·850	+ 2·2747	+ 0·001	...	...
850	1079	106	2462	...	3 Canis Minoris .....β	3·1	87·35	31	7 21 11·100	+ 3·2601	— 0·004	—0·0042	— 0·011
851	2802	113	2466	9540	Lacaille 2802	7·0*	94·18	4	7 21 29·600	+ 2·3039	+ 0·001	...	...
852	2831	...	...	9554	Lacaille 2831	7*	89·07	12	7 21 48·928	+ 0·7111	— 0·012	...	...
853	...	...	...	...	Lalande 14541.....	8·0†	94·20	3	7 21 58·910	+ 2·5445	+ 0·001	...	...
854	1078	105	2464	...	62 Geminorum .....ρ	4·2	89·75	12	7 22 2·142	+ 3·8550	— 0·013	+0·0093	+ 0·002
855	...	...	...	9553	Lalande 14545 .....*pr.*	5·6	89·66	6	7 22 13·845	+ 2·6744	0·000	...	...
856	...	...	...	9555	Lalande 14552.....	5·4	94·18	9	7 22 19·600	+ 2·5447	+ 0·001	...	...
857	...	...	...	...	Lalande 14484.....	6·8†	...	...	7 22 44	+ 4·0635	— 0·017	...	...
858	3274	...	...	9770	Lacaille 3274	6·3	92·82	37	7 25 18·150	—19·556	— 2·703	—0·009†	+ 0·025
859	2837	135	2482	9652	Argûs .....σ	3·0	87·41	11	7 25 44·455	+ 1·9089	+ 0·001	—0·011*	— 0·028
860	...	...	...	...	Lalande 14592.....	7·5†	89·15	2	7 26 2·200	+ 4·2163	— 0·020	...	...
861	1088	126	2480	...	7 Canis Minoris .....δ¹	5·1	88·01	8	7 26 23·168	+ 3·1191	— 0·003	—0·0024	— 0·005
862	...	...	...	...	C. Z. VII. 1876	9·3*	87·13	3	7 27 8·500	+ 1·6756	— 0·001	...	...
863	1087	128	2485	...	66 Geminorum .....*seq.* α	2·2	90·00	12	7 27 34·859	+ 3·8515	— 0·014	—0·0151	0·000
864	2850	...	2492	9702	Lacaille 2850	6·8*	90·36	6	7 27 35·553	+ 1·5743	— 0·002	...	...
865*	...	...	...	9733	Lalande 14810.....	4·5	93·26	4	7 29 20·573	+ 2·5714	+ 0·001	—0·06	+ 0·020
866	3096	...	...	9819	Lacaille 3096	7·6	93·21	6	7 29 20·723	— 9·2266	— 0·788	...	...
867	2858	...	...	9742	Lacaille 2858	6·4	94·13	4	7 29 28·670	+ 2·0417	+ 0·001	...	...
868	...	149	2498	9745	Piazzi VII. 149	7*	89·14	7	7 29 40·416	+ 2·5419	+ 0·001	...	...
869	...	150	...	...	Piazzi VII. 150	6·7†	90·29	6	7 30 43·318	+ 3·2044	— 0·004	...	...
870	2993	...	2539	9843	Mensæ .....ε	5·4	91·07	12	7 31 40·378	— 3·1823	— 0·182	...	...
871*	1102	162	2513	9804	25 Monocerotis.....	5·1	89·04	25	7 31 48·537	+ 2·9893	— 0·002	—0·0060	— 0·006
872	...	...	...	9833	C.G.A. 9833	8*	90·43	7	7 32 37·434	+ 1·9721	+ 0·001	...	...
873	2876	...	...	9827	Lacaille 2876	6·9*	94·16	4	7 32 37·830	+ 2·5373	+ 0·001	...	...
874†	2902	...	2524	9845	Carinæ .....Q	4·9	92·36	12	7 32 56·385	+ 1·4837	— 0·003	0·0000	0·000
875†	2890	172	2523	9850	Puppis .....*f*	4·7	91·52	12	7 33 17·838	+ 2·2218	+ 0·001	—0·0025	+ 0·004

843. *s* Puppis in B.A.C

865. Fundamental star for Southern Zones.

868. n^2 Puppis in B.A.C.

No.	Mean Date. 1800+	No. of Obs.	Mean Dec. 1890·0.	Sec. of Final Dec.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_δ.	Corr. for μ_δ to 1890·0.	Fallows and Henderson.	Johnson.	Cape Catalogues. 1840.	1850.	1860.	1880.	1885.	Melbourne, 1870 and 1880.
			° ′ ″	″	″	″	″	″								
841	90·21	11	— 67 45 20·62	20·86	— 6·602	0·00	— 0·014	0·00	...	176	...	1229	274	3593	...	341
842	88·38	18	— 5 46 25·43	25·72	— 6·614	— 0·40	...	...	...	...	...	1224	...	3590	...	...
843*	94·12	4	— 31 42 43·85	43·93	— 6·760	— 0·31	...	...	...	...	865	1230	...	3615	...	...
844	88·27	15	+ 28 0 58·49	57·99	— 6·768	— 0·51	— 0·075	—0·13	...	...	862	...	275	...	506	*407*
845	91·13	6	+ 43 28 35·16	34·22	— 6·789	— 0·58	...	...	...	...	...	...	...	...	...	...
846	87·69	13	— 29 5 20·34	20·53	— 6·838	— 0·32	+ 0·011	+0·03	146*	177	869	1236	276	3627	508	347*
847	89·94	5	— 69 59 52·63	52·85	— 6·876	+ 0·06	...	...	...	...	...	...	...	3635	...	...
848	94·15	4	— 31 35 35·16	35·25	— 6·901	— 0·31	...	...	...	...	871	1238	...	3633	...	...
849*	87·15	4	— 32 27 4·70	4·79	— 6·930	— 0·31	...	...	...	...	...	...	...	...	...	...
850	87·78	41	+ 8 30 37·70	37·37	— 6·956	— 0·44	— 0·030	—0·07	...	...	...	...	...	3642	509	*409*
851	94·18	4	— 31 31 12·78	12·89	— 6·982	— 0·31	...	...	...	...	872	1239	...	3645	510	...
852	89·07	12	— 62 3 25·40	25·60	— 7·008	— 0·09	...	...	...	...	...	...	...	3649	...	...
853	94·20	3	— 22 51 42·63	42·76	— 7·021	— 0·34	...	...	...	...	...	...	...	...	...	...
854	89·75	12	+ 32 0 8·86	8·23	— 7·025	— 0·52	+ 0·194	+0·05	...	...	...	...	...	...	511	...
855†	89·66	6	— 17 38 36·92	37·23	— 7·042	— 0·36	...	...	...	...	...	...	...	...	...	...
856	94·18	9	— 22 51 53·73	53·86	— 7·050	— 0·34	...	...	...	...	...	...	...	...	...	...
857	91·20	6	+ 38 23 49·05	48·23	— 7·083	— 0·55	...	...	...	...	...	...	...	...	...	...
858*	90·08	157	— 86 50 59·78	59·87	— 7·292	+ 2·66	+ 0·007†	0·00	...	...	...	...	...	3713	516	356*
859	87·41	11	— 43 4 44·92	45·07	— 7·328	— 0·26	+ 0·18*	+0·47	147	178	883	1250	278	3683	514	351
860	90·46	6	+ 42 36 5·54	4·68	— 7·352	— 0·57	...	...	...	...	...	...	...	...	...	...
861	87·91	9	+ 2 8 49·48	49·18	— 7·381	— 0·42	+ 0·023	+0·05	...	...	...	...	...	...	515	...
862	87·13	3	— 48 22 22·08	22·13	— 7·442	— 0·22	...	...	...	...	...	...	...	..	...	...
863†	90·08	13	+ 32 7 44·73	44·07	— 7·478	— 0·52	— 0·079	+0·01	*163*	...	885	1253	280	3696	518	353*
864	90·36	6	— 50 22 38·57	38·91	— 7·478	— 0·21	...	...	...	...	889	1256	...	3701	...	...
865*	93·26	4	— 22 3 31·59	31·80	— 7·621	— 0·34	0·00	0·00	...	...	...	...	...	...	520	*417*
866	93·01	5	— 84 15 31·38	31·46	— 7·621	+ 1·25	...	...	...	...	919	...	...	3739	...	...
867	94·13	4	— 39 49 15·41	15·47	— 7·631	— 0·27	...	...	...	...	...	...	...	3717	...	...
868*	89·14	7	— 23 14 6·09	6·41	— 7·647	— 0·34	...	...	...	...	892	1260	...	3720	...	...
869	90·29	6	+ 6 6 16·90	16·44	— 7·732	— 0·43	...	...	...	...	...	...	...	...	...	...
870	91·68	12	— 78 51 47·19	47·33	— 7·809	+ 0·43	...	...	...	...	913	1282	...	3752	...	...
871	89·06	33	— 3 51 57·25	57·60	— 7·819	— 0·40	+ 0·039	+0·04	...	...	...	1267	...	3745	523	*420*
872	90·43	7	— 41 50 13·16	13·48	— 7·885	— 0·26	...	...	...	...	...	...	...	3754	...	...
873	94·16	4	— 23 31 44·05	44·17	— 7·886	— 0·34	...	...	...	...	...	...	...	3753	...	...
874	92·36	12	— 52 17 18·52	18·72	— 7·910	— 0·19	— 0·030	+0·07	...	...	902	1272	...	3756	...	...
875	91·52	12	— 34 43 17·28	17·59	— 7·940	— 0·30	+ 0·010	—0·02	...	...	901	1271	...	3759	...	...

849. Magnitude from *Cordoba Durchmusterung*.
858. Proper Motion determined for this Catalogue.

855. $5^{m}\cdot6$, $10^{m}\cdot2$ 2″ 50°. Brighter star observed.
863. Binary.

No.	Bradley or Lacaille.	Piazzi. 1800.	B.A.C. 1850.	C.G.A. 1875.	Star's Name.	Mag.	Mean Date. 1800+	No. of Obs.	Mean R.A. 1890·0.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_α.	Corr. for μ_α to 1890·0.
									h m s	s	s	s	s
876*	1106	168	2522	...	10 Canis Minoris .....*a*	0·5	...	11	7 33 32	+3·1908	— 0·004	—0·0474	...
877	2910	...	...	9874	Lacaille 2910	7½*	94·16	4	7 33 53·560	+1·3884	— 0·004	...	...
878	2909	185	2543	9925	Puppis .....*d*¹	5·1	88·80	3	7 35 34·753	+2·1157	+ 0·001	...	...
879	2913	188	2546	9935	Puppis .....*d*²	6·0	89·79	3	7 35 54·957	+2·1180	+ 0·001	...	...
880*	1110	181	2542	9933	26 Monocerotis.....	4·2	87·56	5	7 35 59·450	+2·8726	— 0·001	—0·0077	— 0·019
881	2914	190	2547	9940	Lacaille 2914	6·7*	87·48	6	7 36 2·447	+2·1414	+ 0·001	...	...
882	3010	...	2567	10006	Lacaille 3010 (as one mass)	6¾*	92·21	6	7 37 36·525	—1·1802	— 0·077	...	...
883	...	...	...	9985	C.G.A. 9985	7·0*	90·21	6	7 37 45·770	+2·3719	+ 0·001	...	...
884	1111	184	2551	...	77 Geminorum .....*κ*	3·6	89·42	12	7 37 48·363	+3·6313	— 0·011	—0·0034	— 0·002
885	1116*	195	2557	10001	Bradley 1116	5·8	88·04	6	7 38 15·665	+2·4771	+ 0·001	+0·001	+ 0·002
886	1112	191	2555	...	78 Geminorum .....*β*	1·1	88·78	9	7 38 35·110	+3·7265	— 0·013	—0·0481	— 0·059
887	...	...	...	...	B.D. — 19° No. 2035 ...	9·5†	94·96	3	7 39 11·260	+2·6332	0·000	...	...
888†	1120*	201	2562	10033	3 Argûs.....*r*	4·2	90·15	12	7 39 23·498	+2·4086	+ 0·001	—0·0015	0·000
889	1115	194	2558	...	81 Geminorum .....*g*	5·1	88·98	6	7 39 45·353	+3·4847	— 0·009	—0·0062	— 0·006
890	1117	198	2564	...	11 Canis Minoris.....	5·5	88·60	7	7 40 12·866	+3·3086	— 0·006	—0·0027	— 0·004
891	1114	196	2563	...	80 Geminorum .....*π*	5·4	89·25	12	7 40 24·818	+3·8794	— 0·016	—0·0011	— 0·001
892	...	...	...	10083	C.G.A. 10083	8¼*	87·14	3	7 40 31·290	+2·2292	+ 0·001	...	...
893	2954	...	2575	10088	Lacaille 2954	6·8*	93·14	5	7 40 39·136	+2·1379	+ 0·001	...	...
894†	2958	214	2580	10113	Puppis .....*c*	3·4	89·00	12	7 41 20·070	+2·1385	+ 0·001	—0·0042	— 0·004
895	...	...	2587	10152	C.G.A. 10152	6·5*	86·21	5	7 42 28·930	+2·5794	+ 0·001	...	...
896†	3056	...	2607	10203	Volantis.....*ζ*	4·3*	89·57	10	7 43 10·120	—0·7086	— 0·061	+0·003	+ 0·001
897	2981	220	2594	10182	Puppis .....*o*	4·7	94·12	4	7 43 30·760	+2·4945	+ 0·001	...	...
898†	1132*	230	2602	10225	7 Argûs .....*seq.* *ξ*	3·4	87·00	14	7 44 40·042	+2·5236	+ 0·001	—0·0016	— 0·005
899	...	...	...	...	C.P.D. — 35° No. 1618..	8·0‡	87·15	4	7 44 45·460	+2·2179	+ 0·001	...	...
900†	3022	244	2620	10268	Puppis .....P	4·1	88·32	15	7 45 53·168	+1·8291	0·000	—0·0019	— 0·003
901*	1134	240	2622	10289	9 Puppis (as one mass)..	5·5	88·00	8	7 46 40·738	+2·7833	— 0·001	—0·0064	— 0·013
902	1126	222	2609	...	26 Lyncis	5·8	89·68	6	7 46 42·150	+4·3923	— 0·032	—0·0058	— 0·002
903	1128	233	2617	...	83 Geminorum .....*φ*	4·9	88·50	8	7 46 45·921	+3·6824	— 0·013	—0·0023	— 0·003
904	...	...	...	10298	Lalande 15382.....	6·2*	87·54	6	7 46 55·628	+2·6167	0·000	...	...
905	3060	...	2630	10320	Lacaille 3060	5·9	94·13	4	7 47 23·741	+1·0058	— 0·010	...	...
906†	3044	253	2634	10343	Puppis .....*a*	3·7	87·68	14	7 48 26·099	+2·0636	+ 0·001	—0·0020	— 0·005
907†	3083	...	2641	10372	Lacaille 3083	6·0	89·27	12	7 48 57·027	+0·4134	— 0·025	—0·004	— 0·003
908†	3068	...	2644	10392	Lacaille 3068	4·3	87·66	12	7 50 4·171	+1·7642	0·000	—0·0002	0·000
909	...	...	...	...	B.D. — 15° No. 2128 ...	8·5†	94·96	3	7 50 24·100	+2·7409	0·000	...	...
910	3204	...	...	10477	Lacaille 3204	7·6	90·29	9	7 51 0·138	—5·6895	— 0·484	...	...

876. The separate observations are given in Appendix II.
881. d^4 Puppis in B.A.C.
898. Flamsteed No. omitted in B.A.C.

880. γ Monocerotis in B.A.C.; *a* in C.G.A.
888. 3 Puppis in B.A.C.; *l* Puppis in C.G.A.
908. R Puppis in B.A.C.; J Puppis in C.G.A.

No.	Mean Date. 1800+	No. of Obs.	Mean Dec. 1890·0.	Sec. of Final Dec.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_δ.	Corr. for μ_δ to 1890·0.	Fallows and Henderson.	Johnson.	Cape Catalogues. 1840.	1850.	1860.	1880.	1885.	Melbourne, 1870 and 1880.
			° ′ ″	″	″	″	″	″								
876*	...	14	+ 5 30	...	— 7·960	— 0·42	— 1·027	...	150*	...	900	1270	282	3760	525	358*
877	94·16	4	— 53 56 23·68	23·73	— 7·988	— 0·18	...	...	...	...	...	...	...	3770	...	...
878	88·80	3	— 38 3 20·10	20·33	— 8·123	— 0·28	...	...	...	...	909	1285	...	3787	...	360
879	89·79	3	— 38 0 25·57	25·96	— 8·150	— 0·28	...	...	...	...	911	1287	...	3792	...	361
880*	87·56	5	— 9 17 41·73	41·97	— 8·155	— 0·38	— 0·024	—0·06	...	179	...	1284	...	3791	528	*424*
881*	87·48	6	— 37 19 30·32	30·50	— 8·159	— 0·28	...	...	...	...	912	1288	...	3796	...	...
882†	92·21	6	— 74 1 31·03	31·23	— 8·285	+ 0·16	...	...	...	...	928 929	1302	...	3819	...	...
883	90·21	6	— 29 55 40·11	40·46	— 8·297	— 0·31	...	...	...	...	...	...	...	...	...	...
884	89·42	12	+ 24 39 40·34	39·79	— 8·300	— 0·48	— 0·055	—0·03	...	...	914	1291	283	...	529	...
885	88·04	6	— 26 5 24·87	25·10	— 8·336	— 0·33	— 0·036	—0·07	...	...	...	1295	...	3820	...	...
886	88·50	10	+ 28 17 28·43	27·92	— 8·362	— 0·49	— 0·051	—0·08	*160*	...	916	1294	284	3823	530	363*
887	94·96	3	— 19 53 51·91	52·13	— 8·410	— 0·34	...	...	...	...	...	...	...	...	...	...
888*	90·15	12	— 28 41 31·91	32·27	— 8·427	— 0·32	— 0·001	0·00	...	180	922	1299	285	3831	531	364
889	88·98	6	+ 18 46 40·30	39·86	— 8·455	— 0·46	— 0·044	—0·04	...	...	...	...	...	...	...	...
890	88·60	7	+ 11 2 8·58	8·24	— 8·492	— 0·43	— 0·010	—0·01	...	...	...	...	...	...	...	...
891	89·25	12	+ 33 41 6·45	5·80	— 8·508	— 0·51	— 0·006	0·00	...	...	...	...	...	...	532	...
892	87·14	3	— 34 52 1·00	1·08	— 8·516	— 0·29	...	...	...	...	...	...	...	...	...	...
893	93·14	5	— 37 40 41·30	41·42	— 8·526	— 0·28	...	...	...	...	930	1311	...	3852	...	367
894	89·00	12	— 37 42 6·61	6·83	— 8·580	— 0·28	— 0·002	0·00	151	181	933	1316	288	3864	...	369
895	86·36	6	— 22 14 56·97	57·21	— 8·671	— 0·34	...	...	...	...	...	1321	...	3880	...	...
896	89·62	11	— 72 20 29·70	29·89	— 8·725	+ 0·10	0·00	0·00	...	...	...	1335	...	3900	...	375*
897	94·12	4	— 25 39 52·38	52·48	— 8·753	— 0·32	...	...	...	...	938	1326	289	3895	534	...
898†	87·00	14	— 24 35 2·40	2·61	— 8·843	— 0·33	+ 0·016	+0·05	...	182	943	1332	291	3917	537	*433*
899*	87·12	3	— 35 27 53·14	53·22	— 8·850	— 0·29	...	...	...	...	...	...	...	...	...	...
900	88·32	15	— 46 5 47·24	47·41	— 8·938	— 0·24	— 0·020	—0·03	152	184	950	1345	293	3934	...	378
901†	88·00	8	— 13 36 23·09	23·29	— 9·001	— 0·36	— 0·339	—0·68	...	183	...	1347	294	3945	538	*435*
902	90·24	12	+ 47 50 58·44	57·25	— 9·002	— 0·57	— 0·010	0·00	...	...	...	...	...	...	...	...
903	88·50	8	+ 27 2 60·18	59·71	— 9·008	— 0·48	— 0·028	—0·04	...	...	948	1342	292	...	539	...
904	87·54	6	— 20 53 36·45	36·67	— 9·021	— 0·34	...	...	...	...	...	...	...	...	...	...
905	94·13	4	— 60 0 33·12	33·13	— 9·057	— 0·13	...	...	...	...	956	1353	...	3957	...	...
906	87·68	14	— 40 17 32·85	33·02	— 9·138	— 0·26	+ 0·007	+0·02	...	185	957	1355	...	3965	540	380
907	89·27	12	— 65 54 52·83	53·01	— 9·178	— 0·05	— 0·01	—0·01	...	...	962	1359	...	3974	...	382
908*	87·66	12	— 47 48 58·65	58·81	— 9·265	— 0·22	— 0·014	—0·03	...	187	...	1361	298	3981	542	384
909	94·96	3	— 15 38 18·75	18·98	— 9·291	— 0·35	...	...	...	...	...	...	...	...	...	...
910	91·56	12	— 82 18 36·06	36·19	— 9·337	+ 0·74	...	...	...	...	978	...	...	4000	...	...

882. $7^m·5$, $7^m·6$ 1″·9 102°. Observed as one mass.
899. Magnitude from *Cordoba Durchmusterung*.

898. $3^m·4$, $13^m·7$ 4″·6 189° 1889·12. Brighter star observed.
901. Very close binary; $6^m·0$, $6^m·6$. Observed as one mass.

No.	Bradley or Lacaille.	Piazzi. 1800.	B.A.C. 1850.	C.G.A. 1875.	Star's Name.	Mag.	Mean Date. 1800+	No. of Obs.	Mean R.A. 1890·0.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_α.	Corr. for μ_α to 1890·0.
									h m s	s	s	s	s
911	...	...	...	...	Cape (1880) No. 3988 ..	8½*	89·19	1	7 51 4·130	+ 1·8032	0·000	...	...
912	...	...	...	10453	Brisbane 1821	7¾*	88·40	14	7 52 5·364	+ 1·8060	0·000	...	...
913	3097	...	2656	10470	Lacaille 3097	5·5	90·97	12	7 52 36·430	+ 1·2566	— 0·007	...	...
914†	3102	...	2665	10507	Argûs .....χ	3·6	87·28	12	7 53 58·886	+ 1·5310	— 0·003	—0·0050	— 0·014
915	1140	270	2657	...	2 Cancri .....ω	5·9	87·96	12	7 54 16·478	+ 3·6374	— 0·013	—0·0011	— 0·002
916	1143	275	2659	...	3 Cancri	6·0	87·75	7	7 54 29·134	+ 3·4450	— 0·009	—0·0022	— 0·005
917	...	...	...	...	Gilliss P.Z. 5752.....	*	91·49	2	7 55 31·940	—81·345	—56·102	...	...
918	3122	...	2678	10561	Lacaille 3122	5·7	94·15	4	7 55 45·231	+ 1·0453	— 0·011	+0·073†	— 0·303
919	3238	...	...	10637	Lacaille 3238	7·0	86·43	9	7 56 18·226	— 4·5721	— 0·378	...	...
920	1153	289	2673	...	Canis Minoris 12 H ...	4·6	88·79	10	7 56 32·523	+ 3·1263	— 0·004	—0·0024	— 0·003
921	1149	285	2672	...	Geminorum .....χ	5·0	89·95	19	7 56 45·697	+ 3·6957	— 0·015	—0·0025	0·000
922	...	...	...	...	Lalande 15697.....	7·5†	89·33	6	7 57 8·513	+ 3·5118	— 0·011	...	...
923†	3136	306	2710	10691	Argûs .....ζ	2·3	88·92	12	7 59 43·054	+ 2·1109	+ 0·001	—0·0031	— 0·003
924	1163	303	2708	10690	14 Puppis	6·7*	87·20	7	7 59 48·479	+ 2·6642	0·000	+0·0001	0·000
925	3911	...	2878	11013	Octantis .....A	7·8	92·56	38	8 0 15·440	—42·524	—16·897	—0·029†	+ 0·074
926	...	...	2723	10749	Lalande 15930.....	5·1	90·14	4	8 2 26·860	+ 2·6483	0·000	...	...
927*	1170*	320	2728	10763	15 Argûs .....ρ	2·9	86·64	14	8 2 51·546	+ 2·5611	+ 0·001	—0·0067	— 0·023
928	3163	...	2733	10769	Lacaille 3163	4·8	90·19	4	8 3 8·520	+ 1·9261	0·000	...	...
929	...	...	...	10785	C.G.A. 10785	8*	87·13	1	8 3 35·660	+ 2·2045	+ 0·002	...	...
930	...	...	...	10788	C.G.A. 10788	8*	87·13	1	8 3 42·890	+ 2·2049	+ 0·002	...	...
931	3168	...	...	10811	Lacaille 3168	6·7*	88·87	19	8 4 35·733	+ 2·1990	+ 0·002	...	...
932	...	321	2734	...	Piazzi VII. 321	6·7†	89·36	6	8 4 44·923	+ 3·8096	— 0·018	—0·036†	— 0·023
933	...	...	...	10936	Brisbane 2007.....	8·5	94·05	26	8 5 2·375	—11·868	— 1·766	...	...
934	...	...	...	...	B.D. — 11° No. 2267 ...	9·0†	94·96	3	8 5 49·240	+ 2·8386	— 0·001	...	...
935	1175	5	2744	...	16 Cancri AB .....ζ	5·0	89·31	15	8 5 54·223	+ 3·4425	— 0·010	+0·0033	+ 0·002
936	...	...	2754	10861	Brisbane 1916.....	4·9	88·72	6	8 6 5·970	+ 1·8496	0·000	...	...
937†	3185	...	2755	10863	Argûs .....γ	1·9	91·17	12	8 6 8·507	+ 1·8500	0·000	—0·0020	+ 0·002
938	...	...	2748	...	Lalande 16021.....	6·8†	90·66	8	8 6 12·975	+ 3·3636	— 0·009	...	...
939*	1179	18	2769	10925	20 Puppis	5·1	90·00	45	8 8 16·619	+ 2·7593	0·000	—0·0020	0·000
940	3206	...	...	10945	Lacaille 3206	6·8*	87·21	1	8 8 49·280	+ 2·2015	+ 0·002	...	...
941	3232	...	2781	10989	Lacaille 3232	7½*	90·66	4	8 10 17·170	+ 1·8958	0·000	...	...
942	1180	28	2778	...	17 Cancri .....β	3·8	88·80	56	8 10 32·963	+ 3·2614	— 0·007	—0·0044	— 0·005
943	3231	...	...	11022	Lacaille 3231	6·9*	88·57	13	8 11 27·929	+ 2·4088	+ 0·002	...	...
944	1184	39	2785	11042	21 Puppis	6·8*	90·90	4	8 12 20·450	+ 2·7525	0·000	—0·0008	+ 0·001
945	...	...	...	...	C.P.D. — 51° No. 1413..	9·3‡	87·24	4	8 13 32·410	+ 1·6882	— 0·001	...	...

915. ω^1 Cancri in B.A.C.

921. 6 Cancri in B.A.C.

925 The letter A, having been in use at the Cape since 1836, has been retained.

927. Fundamental star for Southern Zones. 15 Navis ι in Auwers' Bradley and *Ast. Nach.* 2890, Flamsteed No. omitted in B.A.C. and letter in N.A.

No.	Mean Date. 1800+	No. of Obs.	Mean Dec. 1890·0.	Sec. of Final Dec.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_δ.	Corr. for μ_δ to 1890·0.	Fallows and Henderson.	Johnson.	Cape Catalogues. 1840.	1850.	1860.	1880.	1885.	Melbourne. 1870 and 1880.
			° ′ ″	″	″	″	″	″								
911	89·19	1	— 47 1 3·78	4·02	— 9·342	— 0·23	...	...	...	...	...	...	...	3988	...	...
912	88·40	14	— 47 1 17·16	17·34	— 9·421	— 0·23	...	...	...	...	...	...	...	3998	...	...
913	90·97	12	— 57 0 43·02	43·36	— 9·461	— 0·16	...	...	...	...	968	1368	...	4004	...	...
914	87·28	12	— 52 41 14·81	14·91	— 9·567	— 0·19	+ 0·016	+0·04	156*	188	970	1373	301	4017	544	389
915*	87·96	12	+ 25 41 36·62	36·18	— 9·590	— 0·46	+ 0·013	+0·03	...	...	...	...	...	...	545	...
916	87·75	7	+ 17 36 34·23	33·90	— 9·606	— 0·44	+ 0·01	+0·02	...	...	...	1369	...	...	...	...
917*	91·49	2	— 89 12 20·26	20·28	— 9·686	+ 10·39	...	...	...	...	...	...	...	...	...	...
918*	94·15	4	— 60 0 28·40	28·42	— 9·703	— 0·13	+ 0·12†	—0·50	...	...	977	1380	...	4043	...	...
919	86·87	36	— 81 18 36·83	36·88	— 9·745	+ 0·59	...	...	...	...	985	...	...	4068	552	...
920	88·48	13	+ 2 38 10·33	9·99	— 9·763	— 0·39	+ 0·123	+0·19	...	...	...	...	...	4050	550	...
921*	90·04	23	+ 28 6 8·14	7·60	— 9·780	— 0·47	— 0·039	0·00	...	...	973	...	304	4052	551	391*
922	89·33	6	+ 20 38 47·23	46·74	— 9·810	— 0·44	...	...	...	...	...	...	...	...	...	...
923	88·92	12	— 39 41 36·90	37·15	— 10·005	— 0·26	+ 0·012	+0·01	157*	189	982	1398	305	4097	556	396
924	87·20	7	— 19 25 0·18	0·38	— 10·012	— 0·33	+ 0·037	+0·10	...	...	...	1397	...	4096	...	...
925*	91·18	93	— 88 32 47·09	47·17	— 10·045	+ 5·37	+ 0·010†	—0·01	5	...	1061	...	324	4191	563	408*
926	90·14	4	— 20 14 12·55	13·03	— 10·212	— 0·33	...	...	...	...	...	1405	...	4122	...	...
927*	86·53	15	— 23 59 15·33	15·55	— 10·243	— 0·32	+ 0·053	+0·18	90	190	987	1408	308	4127	560	398*
928	90·19	4	— 44 56 55·34	55·73	— 10·264	— 0·24	...	...	...	...	988	1410	...	4130	...	...
929	87·17	2	— 37 6 58·50	58·59	— 10·298	— 0·27	...	...	...	...	...	...	...	...	...	...
930	87·13	1	— 37 6 22·47	22·55	— 10·307	— 0·27	...	...	...	...	...	...	...	...	...	...
931	88·87	19	— 37 21 35·98	36·18	— 10·373	— 0·27	...	...	...	...	...	...	...	4147	...	...
932*	88·70	4	+ 32 48 8·91	8·41	— 10·384	— 0·47	— 0·68†	—0·88	...	...	...	...	...	...	...	...
933	94·08	28	— 85 37 34·19	34·27	— 10·405	+ 1·49	...	...	...	...	...	...	...	4186	...	...
934	94·96	3	— 11 35 26·06	26·30	— 10·464	— 0·35	...	...	...	...	...	...	...	...	...	...
935†	89·31	15	+ 17 58 44·01	43·54	— 10·470	— 0·42	— 0·104	—0·07	...	...	...	...	...	...	565	...
936	88·72	6	— 47 1 17·06	17·24	— 10·485	— 0·23	...	...	...	191	994	1421	...	4162	...	401
937	91·17	12	— 47 0 45·51	45·76	— 10·488	— 0·23	— 0·010	+0·01	158*	192	995	1422	311	4163	567	402
938	90·49	6	+ 14 19 53·97	53·47	— 10·494	— 0·41	...	...	...	...	...	...	...	...	...	...
939	89·96	52	— 15 27 25·73	26·03	— 10·647	— 0·34	— 0·009	0·00	...	193	...	1430	312	4200	568	478
940	87·21	1	— 37 35 36·59	36·70	— 10·688	— 0·27	...	...	...	...	...	...	...	4207	...	...
941	90·65	4	— 46 14 42·24	42·62	— 10·795	— 0·23	...	...	...	...	...	1442	...	4224	...	...
942	89·64	61	+ 9 31 26·87	26·49	— 10·815	— 0·40	— 0·041	—0·01	...	...	...	...	315	4226	569	482
943	88·79	15	— 30 35 17·39	17·63	— 10·883	— 0·29	...	...	...	...	...	...	...	4236	...	...
944	90·90	4	— 15 56 41·64	42·10	— 10·946	— 0·33	+ 0·002	0·00	...	...	...	1445	316	4240	...	...
945*	87·24	4	— 51 7 4·57	4·66	— 11·034	— 0·20	...	...	...	...	...	...	...	...	...	...

917. Magnitude from Cape observations 9·0, 7·6, 7·5 and 8·4. Observed *S.P.* only.
918, 932. Proper Motion from *Cincinnati Publications*, No. 12.
935. Close binary; $5^m{\cdot}5$, $6^m{\cdot}2$. A and B observed as one mass.
925. Proper Motion determined for this Catalogue.
945. Magnitude from Cape observations.

No.	Bradley or Lacaille.	Piazzi. 1800.	B.A.C. 1850.	C.G.A. 1875.	Star's Name.	Mag.	Mean Date. 1800+	No. of Obs.	Mean R.A. 1890·0.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_α.	Corr. for μ_α to 1890·0.
									h m s	s	s	s	s
946	...	...	...	...	C.P.D. — 51° No. 1416..	9·6‡	87·24	3	8 14 9·610	+1·6787	— 0·002	...	...
947†	3259	47	2795	11111	Puppis .....*q*	4·5	89·75	12	8 14 26·233	+2·2541	+ 0·002	—0·0135	— 0·003
948	...	...	...	11151	Lalande 16385.....	8*	94·96	3	8 15 54·360	+2·9224	— 0·002	...	...
949	3291	...	2808	11193	Lacaille 3291	6·9*	90·40	4	8 16 53·788	+1·6781	— 0·002	...	...
950	3307	...	...	11213	Lacaille 3307	7·8	90·86	6	8 17 34·990	+1·1806	— 0·010	...	...
951	...	...	...	...	B.D. — 7° No. 2453 ...	9·1†	94·96	3	8 17 35·370	+2·9242	— 0·002	...	...
952	1189	55	2807	11200	22 Puppis	6·7*	88·20	6	8 17 36·678	+2·8239	— 0·001	—0·0034	— 0·006
953	3311	...	...	11264	Lacaille 3311	7·4	89·31	6	8 19 51·822	+1·9671	+ 0·001	...	...
954	1191	64	2817	...	23 Cancri.....*pr.* ϕ^2	6·6	90·51	6	8 20 7·937	+3·6373	— 0·017	—0·0009	0·000
955*	1197	69	2825	11266	Bradley 1197	3·9	89·10	40	8 20 9·852	+3·0046	— 0·003	—0·0058	— 0·005
956†	3327	...	2832	11285	Argûs ....ε	1·7	88·43	11	8 20 15·272	+1·2401	— 0·009	—0·0040	— 0·006
957	3304	72	2827	11277	Lacaille 3304	5·5	90·96	4	8 20 18·760	+2·5925	+ 0·001	...	...
958	...	...	...	11290	Lalande 16578.....	6·9	90·43	6	8 20 46·050	+2·9159	— 0·002	...	...
959	...	...	...	...	Lalande 16532.....	7·9†	91·26	6	8 20 47·220	+3·7265	— 0·019	...	...
960	3400	...	2849	11334	Chamæleontis .....*α*	4·1	91·02	12	8 21 21·391	—1·4950	— 0·145	+0·028*	— 0·029
961	3396	...	2856	11378	Volantis.....*η*	5·4	89·03	6	8 23 3·495	—0·4853	— 0·078	...	...
962	...	...	...	11374	Lalande 16702.....	6·2	88·69	6	8 23 48·060	+2·6196	+ 0·001	...	...
963†	3435	...	2870	11405	Chamæleontis .....*θ*	4·2	86·54	19	8 23 55·856	—1·6619	— 0·162	—0·0443	— 0·153
964†	3384	...	2863	11407	Volantis.....*β*	3·6	90·17	12	8 24 32·277	+0·6734	— 0·025	—0·0078	+ 0·001
965	3360	...	2861	11417	Lacaille 3360	6·4*	91·21	4	8 25 23·140	+2·0401	+ 0·002	+0·003*	— 0·004
966	3367	...	2865	11424	Velorum .....*seq.* A	5·6	87·84	6	8 25 36·320	+1·8957	+ 0·001	...	...
967	...	...	2855	...	Lalande 16704.....	6·0	89·50	4	8 25 45·950	+3·9246	— 0·027	—0·0151	— 0·008
968	...	...	...	...	B.D. — 8° No. 2391 ...	8·0†	87·21	2	8 25 54·760	+2·9009	— 0·002	...	...
969	1204	87	2860	...	32 Lyncis	6·1	89·13	1	8 26 18·310	+3·8759	— 0·025	—0·012	— 0·010
970	1207	88	2862	...	33 Cancri.....*η*	5·5	87·45	11	8 26 20·892	+3·4806	— 0·013	—0·0039	— 0·010
971	3372	...	...	11455	Lacaille 3372	7·4*	90·35	6	8 26 51·808	+2·1362	+ 0·002	...	...
972	1208	92	2871	...	33 Lyncis	5·7	88·60	5	8 27 39·704	+3·8720	— 0·025	—0·0027	— 0·004
973	...	...	...	...	Lalande 16814.....	6·5†	89·00	14	8 27 55·514	+3·1684	— 0·006	...	...
974	...	...	...	...	C.P.D. — 38° No. 2419..	9·6‡	87·25	4	8 28 16·610	+2·2097	+ 0·002	...	...
975	...	...	...	...	C.Z. VIII. 2355	9¼*	87·28	2	8 28 43·690	+2·2035	+ 0·002	...	...
976	...	...	...	...	Lalande 16804.....	6·5†	...	...	8 28 50	+4·0639	— 0·032	...	...
977	3394	...	...	11538	Lacaille 3394	7·0*	88·01	15	8 29 50·759	+2·5383	+ 0·002	...	...
978	3408	...	...	11556	Lacaille 3408	6·9*	90·40	4	8 30 19·852	+2·2674	+ 0·002	...	...
979	3537	...	2928	11598	Lacaille 3537	5·6	86·39	23	8 30 49·558	—3·2841	— 0·346	...	...
980	...	...	...	...	Lalande 16965.....	7·0†	87·19	3	8 31 20·960	+2·8990	— 0·002	...	...

955. 30 Monocerotis in B.F.

No.	Mean Date. 1800+	No. of Obs.	Mean Dec. 1890·0.	Sec. of Final Dec.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_δ.	Corr. for μ_δ to 1890·0.	Fallows and Henderson.	Johnson.	Cape Catalogues. 1840.	1850.	1860.	1880.	1885.	Melbourne, 1870 and 1880.
			° ′ ″	″	″	″	″	″								
946*	87·24	3	− 51 21 29·53	29·63	− 11·079	− 0·20	...	...	...	...	...	...	...	...	...	...
947	89·75	12	− 36 19 7·06	7·39	− 11·100	− 0·27	+ 0·085	+0·02	159	195	1012	1449	319	4268	...	407
948	94·96	3	− 7 42 34·55	34·80	− 11·206	− 0·35	...	...	...	...	...	...	...	...	...	...
949	90·40	4	− 51 35 43·27	43·64	− 11·279	− 0·20	...	...	...	...	...	1457	...	4292	...	...
950	90·86	6	− 59 45 17·03	17·35	− 11·328	− 0·14	...	...	...	...	...	...	...	4302	...	...
951	94·96	3	− 7 39 21·76	22·01	− 11·328	− 0·35	...	...	...	...	...	...	...	...	...	...
952	88·20	6	− 12 42 5·19	5·45	− 11·331	− 0·33	− 0·025	−0·05	...	...	...	1456	321	4298	574	...
953	89·31	6	− 45 15 27·46	27·74	− 11·493	− 0·23	...	...	...	...	...	...	...	4331	...	...
954†	90·51	6	+ 27 17 35·32	34·69	− 11·511	− 0·43	− 0·008	0·00	...	...	1023	...	...	...	...	...
955*	89·09	45	− 3 32 52·61	52·93	− 11·514	− 0·35	+ 0·007	+0·01	...	...	1027	1467	...	4333	577	*496*
956	88·58	12	− 59 9 20·27	20·47	− 11·520	− 0·14	+ 0·005	+0·01	160*	196	1031	1472	323	4336	579	411*
957	90·96	4	− 23 41 22·86	23·31	− 11·525	− 0·30	...	...	...	...	1028	1468	...	4335	...	...
958	90·43	6	− 8 9 21·39	21·86	− 11·557	− 0·34	...	...	...	...	...	...	...	...	...	...
959	91·26	6	+ 30 54 37·57	36·87	− 11·558	− 0·44	...	...	...	...	...	...	...	...	...	...
960	91·31	12	− 76 34 17·95	18·28	− 11·598	+ 0·18	+ 0·12*	−0·16	...	197	1038	1483	325	4351	...	413*
961	89·03	6	− 73 2 37·87	38·04	− 11·720	+ 0·06	...	...	...	198	1041	1487	326	4373	...	416
962	88·69	6	− 22 42 22·20	22·43	− 11·773	− 0·30	...	...	...	...	...	...	...	...	...	...
963	86·65	27	− 77 7 45·50	45·58	− 11·782	+ 0·20	+ 0·020	+0·07	...	200	1047	1498	330	4389	585	419*
964	90·17	12	− 65 46 10·86	11·11	− 11·825	− 0·07	− 0·181	+0·03	162	199	1042	1492	328	4398	586	418
965	91·21	4	− 43 47 36·72	37·12	− 11·885	− 0·23	− 0·03*	+0·04	...	...	...	1491	...	4403	...	...
966†	87·84	6	− 47 33 42·32	42·43	− 11·900	− 0·22	...	...	...	...	1043	1494	...	4405	...	...
967	90·00	6	+ 38 23 35·50	34·73	− 11·912	− 0·46	− 0·208	0·00	...	...	...	...	...	...	587	...
968	87·19	3	− 9 4 13·72	13·89	− 11·921	− 0·34	...	...	...	...	...	...	...	...	...	...
969	89·13	1	+ 36 48 31·53	30·85	− 11·949	− 0·45	+ 0·014	+0·01	...	...	...	...	...	...	...	...
970	87·23	13	+ 20 48 51·87	51·46	− 11·953	− 0·40	− 0·047	−0·13	...	...	1040	...	329	4411	588	421*
971	90·35	6	− 41 8 41·73	42·06	− 11·989	− 0·24	...	...	...	...	...	...	...	4424	...	...
972	88·60	5	+ 36 47 47·26	46·67	− 12·045	− 0·45	− 0·033	−0·05	...	...	...	...	...	...	...	...
973	89·00	14	+ 5 7 54·65	54·33	− 12·063	− 0·36	...	...	...	...	...	...	...	...	...	...
974*	87·25	4	− 38 58 3·35	3·47	− 12·088	− 0·25	...	...	...	...	...	...	...	...	...	...
975	87·28	2	− 39 12 42·69	42·83	− 12·119	− 0·25	...	...	...	...	...	...	...	...	...	...
976	91·16	6	+ 42 57 30·54	29·60	− 12·126	− 0·47	...	...	...	...	...	...	...	...	...	...
977	88·01	15	− 26 43 16·25	16·43	− 12·197	− 0·29	...	...	...	...	...	...	...	4461	...	...
978	90·40	4	− 37 13 59·86	60·28	− 12·231	− 0·26	...	...	...	...	...	...	...	4473	...	...
979	86·79	53	− 80 33 10·92	10·99	− 12·265	+ 0·38	...	...	...	...	...	1525	...	4486	595	425*
980	87·18	4	− 9 19 58·39	58·56	− 12·301	− 0·33	...	...	...	...	...	...	...	...	...	...

946. Magnitude from Cape observations.
966. $5^m·6$, $8^m·3$ 3″·7 241°. Brighter star observed.

954. $6^m·0$, $6^m·6$ 4″·8 215°. Fainter star observed.
974. Magnitude from *Cordoba Durchmusterung*.

No.	Bradley or Lacaille.	Piazzi. 1800.	B.A.C. 1850.	C.G.A. 1875.	Star's Name.	Mag.	Mean Date. 1800+	No. of Obs.	Mean R.A. 1890·0.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_a.	Corr. for μ_a to 1890·0.
									h m s	s	s	s	s
981	1217	114	2901	...	4 Hydræ .....δ	4·1	88·40	10	8 31 49·964	+ 3·1849	— 0·006	—0·0065	— 0·010
982	3451	...	2921	11624	Carinæ .....e^2	4·8	91·00	12	8 32 43·678	+ 1·4149	— 0·006	...	...
983	1221	123	2911	...	5 Hydræ .....σ	4·4	88·81	10	8 33 0·466	+ 3·1409	— 0·006	—0·0038	— 0·005
984	3458	...	...	11648	Lacaille 3458	7½*	90·04	6	8 33 25·817	+ 1·4990	— 0·004	...	...
985†	3446	139	2926	11653	Velorum.....e	4·1	89·35	13	8 33 46·546	+ 2·1096	+ 0·002	—0·0020	— 0·001
986†	...	...	...	11669	Lalande 17103 (as one mass)	5·1	91·04	12	8 34 18·971	+ 2·6441	+ 0·001	—0·019	+ 0·020
987	...	...	...	...	Lalande 17085.....	7·2†	88·57	9	8 34 35·746	+ 3·1146	— 0·005	...	...
988*	1229	138	2929	11678	6 Hydræ	5·2	87·25	6	8 34 48·775	+ 2·8491	— 0·001	—0·0077	— 0·021
989	3450	140	2932	11696	Pyxidis .....ζ	4·9	90·93	4	8 35 8·555	+ 2·4908	+ 0·002	...	...
990†	3462	145	2935	11714	Pyxidis .....β	3·9	90·86	12	8 35 47·725	+ 2·3467	+ 0·003	—0·0001	0·000
991	3510	...	...	11740	Lacaille 3510	6·9	89·32	5	8 36 4·963	+ 0·1732	— 0·050	...	...
992	...	...	...	...	B.D. — 9° No. 2625 ...	9·1†	87·21	4	8 36 36·500	+ 2·8995	— 0·002	...	...
993	3490	...	...	11759	Lacaille 3490 .....*seq.*	7½*	92·23	6	8 36 53·130	+ 1·2838	— 0·009	...	...
994	1230	142	2937	...	43 Cancri.....γ	4·8	87·18	11	8 36 55·287	+ 3·4880	— 0·014	—0·0087	— 0·025
995	...	...	...	11743	Lalande 17175.....	6·8*	91·00	6	8 36 55·512	+ 2·8605	— 0·001	...	...
996	3470	155	2947	11755	Velorum.....b	3·7	91·64	12	8 36 58·539	+ 1·9907	+ 0·002	...	...
997	3482	...	2950	11760	Argûs .....o	3·6	91·88	6	8 37 8·455	+ 1·7224	— 0·001	...	...
998†	3504	...	2962	11790	Carinæ .....d	4·4	90·61	12	8 38 11·071	+ 1·3316	— 0·008	—0·0052	+ 0·003
999	1236	150	2953	...	47 Cancri .....δ	4·3	88·14	35	8 38 26·011	+ 3·4183	— 0·012	—0·0026	— 0·005
1000†	3487	162	2964	11806	Pyxidis .....a	3·7	89·09	11	8 39 10·281	+ 2·4107	+ 0·003	—0·0025	— 0·002
1001	...	...	...	...	W.B. VIII. 983	8·5†	94·96	3	8 39 46·760	+ 3·0757	— 0·004	...	...
1002	1239	158	2965	...	48 Cancri .....ι	4·2	89·42	12	8 40 2·425	+ 3·6439	— 0·019	—0·0016	— 0·001
1003	1243	164	2971	...	11 Hydræ AB.....ε	3·6	89·02	41	8 40 57·070	+ 3·1946	— 0·007	—0·0135	— 0·013
1004	1244	166	2975	11866	12 Hydræ	4·4	88·37	6	8 41 10·740	+ 2·8344	0·000	+0·0005	+ 0·001
1005	...	...	...	...	B.D. — 9° No. 2652 ...	8·6†	87·25	3	8 41 17·440	+ 2·8960	— 0·001	...	...
1006	3759	...	...	11982	Lacaille 3759	7·0	95·38	16	8 41 30·611	—12·209	— 2·596	...	...
1007†	3532	...	2979	11887	Argûs (as one mass)...δ	2·0	89·22	12	8 41 39·870	+ 1·6558	— 0·002	+0·0005	0·000
1008*	...	167	2976	11876	Piazzi VIII. 167	5·1	89·69	13	8 41 40·473	+ 3·0460	— 0·004	—0·0036	— 0·001
1009†	3526	176	2981	11900.	Velorum.....a	4·0	90·56	12	8 42 17·860	+ 2·0341	+ 0·002	—0·0025	+ 0·001
1010	...	...	...	...	✳	9·8‡	87·27	2	8 42 47·190	+ 2·8992	— 0·001	...	...
1011	...	...	...	...	Lalande 17359 (as one mass)	7·0†	89·70	6	8 43 50·293	+ 3·7920	— 0·025	...	...
1012†	3623	...	3023	12016	Chamæleontis .....η	5·7	86·40	12	8 45 2·776	— 1·8952	— 0·220	—0·0171	— 0·061
1013†	3553	193	3010	12006	Pyxidis .....γ	4·3	89·25	13	8 45 51·793	+ 2·5554	+ 0·002	—0·0117	— 0·009
1014	3644	...	3040	12065	Lacaille 3644	6·7*	91·16	4	8 46 56·821	— 1·9048	— 0·225	—0·011*	+ 0·013
1015	1255	192	3016	...	57 Cancri (as one mass) σ^2	5·5	89·05	12	8 47 31·958	+ 3·6704	— 0·022	+0·0020	+ 0·002

989. *f* Mali in B.A.C. 990. *b* Mali in B.A.C. 1000. *a* Mali in B.A.C. 1013. *o* Mali in B.A.C.

No.	Mean Date. 1800+	No. of Obs.	Mean Dec. 1890·0.	Sec. of Final Dec.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_δ.	Corr. for μ_δ to 1890·0.	Fallows and Henderson.	Johnson.	Cape Catalogues. 1840.	1850.	1860.	1880.	1885.	Melbourne, 1870 and 1880.
			° ′ ″	″	″	″	″	″								
981	88·18	11	+ 6 5 12·90	12·57	— 12·334	— 0·36	— 0·001	0·00	...	...	...	...	...	4485	597	...
982	91·00	12	— 57 37 42·89	43·24	— 12·396	— 0·16	...	...	...	...	1058	1521	...	4501	...	...
983	88·46	12	+ 3 43 37·98	37·67	— 12·415	— 0·35	— 0·003	0·00	...	...	...	...	...	4500	599	...
984	90·04	6	— 56 19 41·15	41·40	— 12·444	— 0·17	...	...	...	...	...	...	...	4513	...	...
985	89·35	13	— 42 36 16·34	16·58	— 12·468	— 0·24	0·000	0·00	...	...	1059	1523	333	4517	...	...
986†	91·04	12	— 22 17 16·78	17·22	— 12·505	— 0·30	+ 0·40	—0·42	...	...	...	...	...	...	...	...
987	88·44	10	+ 2 18 35·54	35·26	— 12·524	— 0·35	...	...	...	...	...	...	...	...	...	...
988	87·24	7	— 12 5 12·67	12·87	— 12·539	— 0·32	+ 0·006	+0·02	...	...	1062	1524	334	4525	600	*511*
989*	90·93	4	— 29 10 11·41	11·86	— 12·562	— 0·28	...	...	...	...	1063	1526	...	4529	601	...
990*	90·86	12	— 34 55 5·54	5·93	— 12·606	— 0·26	— 0·024	+0·02	163	201	1064	1529	335	4538	...	...
991	89·32	5	— 70 17 26·60	26·88	— 12·625	— 0·01	...	...	...	...	...	...	...	4542	...	...
992	87·21	4	— 9 28 30·89	31·07	— 12·661	— 0·32	...	...	...	...	...	...	...	...	...	...
993†	92·43	5	— 59 55 41·52	41·75	— 12·680	— 0·14	...	...	...	...	...	...	...	4552	...	...
994	87·17	12	+ 21 51 49·83	49·41	— 12·682	— 0·39	— 0·033	—0·09	...	...	1065	1531	336	4546	603	*513*
995	91·00	6	— 11 34 21·99	22·45	— 12·682	— 0·32	...	...	...	...	...	...	...	...	...	...
996	91·53	13	— 46 15 27·40	27·67	— 12·686	— 0·22	...	...	...	202	1069	1537	337	4551	604	429
997	91·88	6	— 52 31 53·30	53·49	— 12·697	— 0·19	...	...	...	203	1073	1540	338	4555	605	430
998	90·61	12	— 59 22 6·88	7·20	— 12·768	— 0·14	— 0·027	+0·02	...	205	1078	1549	340	4571	...	432
999	87·97	31	+ 18 33 30·20	29·84	— 12·785	— 0·38	— 0·226	—0·46	...	...	1072	1542	339	...	607	...
1000*	89·09	11	— 32 47 24·55	24·87	— 12·834	— 0·26	+ 0·023	+0·02	165	204	1080	1551	...	4581	...	...
1001	94·96	3	+ 0 10 53·19	52·92	— 12·876	— 0·34	...	...	...	...	...	...	...	...	...	...
1002	89·42	12	+ 29 9 42·46	41·88	— 12·892	— 0·40	— 0·033	—0·02	...	...	...	...	...	...	609	...
1003†	88·72	43	+ 6 49 19·28	18·90	— 12·953	— 0·35	— 0·023	—0·03	*135*	...	1081	1556	341	4610	610	434*
1004	88·37	6	— 13 8 45·20	45·43	— 12·969	— 0·31	— 0·009	—0·01	...	...	...	1560	...	4613	611	435
1005	87·25	3	— 9 49 26·07	26·26	— 12·976	— 0·32	...	...	...	...	...	...	...	...	...	...
1006	95·38	17	— 86 11 13·70	13·78	— 12·990	+ 1·36	...	...	...	...	...	...	...	4661	...	*521*
1007†	89·22	12	— 54 18 20·39	20·63	— 13·001	— 0·18	— 0·094	—0·07	167*	206	1086	1563	343	4627	614	436*
1008	89·69	13	— 1 29 40·16	40·48	— 13·001	— 0·33	+ 0·017	+0·01	...	...	...	1561	342	4621	612	*516*
1009	90·60	13	— 45 38 22·11	22·45	— 13·043	— 0·22	+ 0·008	0·00	...	207	1087	1565	344	4632	...	437
1010*	87·27	2	— 9 42 0·79	0·98	— 13·075	— 0·31	...	...	...	...	...	...	...	...	...	...
1011†	89·70	6	+ 35 28 35·07	34·42	— 13·145	— 0·41	...	...	...	...	...	...	...	...	...	...
1012	86·38	14	— 78 33 49·58	49·68	— 13·225	+ 0·21	+ 0·019	+0·07	...	208	1099	1588	349	4684	...	440
1013*	89·25	13	— 27 18 8·15	8·43	— 13·279	— 0·27	+ 0·082	+0·06	...	...	1095	1582	...	4685	...	...
1014	91·16	4	— 78 40 0·39	0·65	— 13·350	+ 0·21	— 0·03*	+0·03	...	209	1105	1598	...	4703	...	441
1015†	89·05	12	+ 30 59 44·27	43·74	— 13·388	— 0·39	— 0·021	—0·02	...	...	...	...	...	...	618	...

986. Close binary ; $5^m·4$, $6^m·6$. Observed as one mass.
1003. Probably ternary ; $3^m·8$. $5^m·8$, $7^m·4$. AB only seen and observed as one mass.
1010. Magnitude from Cape observations.
1015. Close suspected binary ; $6^m·0$, $6^m·5$. Observed as one mass.

993. $7^m·5$, $8^m·0$ $2''·2$ 219°. Brighter star observed.
1007. $2^m·1$, $5^m·2$ $1''·5\pm$ 169°. Observed as one mass.
1011. $7^m·8$, $7^m·8$ $3''·5$ 278°. Observed as one mass.

No.	Bradley or Lacaille.	Piazzi. 1800.	B.A.C. 1850.	C.G.A. 1875.	Star's Name.	Mag.	Mean Date. 1800+	No. of Obs.	Mean R.A. 1890·0.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_a.	Corr. for μ_a to 1890·0.
									h m s	s	s	s	s
1016	...	...	...	...	C.Z. VIII. 3879	8½*	87·24	3	8 47 57·730	+ 2·2193	+ 0·003	...	...
1017	3609	...	3043	12101	Lacaille 3609	5·4	89·29	15	8 49 5·477	+ 0·8100	— 0·025	...	...
1018	3593	...	3038	12102	Lacaille 3593 .....*pr.*	7·2*	90·51	6	8 49 20·692	+ 1·8206	+ 0·001	...	...
1019	1261	210	3032	...	16 Hydræ .....ζ	3·3	88·41	32	8 49 34·758	+ 3·1826	— 0·007	—0·0075	— 0·012
1020	3669	...	3063	12139	Lacaille 3669	6·4*	92·54	11	8 49 56·562	— 2·0454	— 0·247	...	...
1021	...	...	...	...	Gilliss P.Z. 6020.....	8·8‡	91·49	2	8 50 0·970	—26·685	—11·187	...	...
1022	1263	216	3046	...	61 Cancri .....σ^3	6·5†	91·03	6	8 51 17·743	+ 3·6537	— 0·021	+0·0048	— 0·005
1023	...	...	...	...	B.D. — 9° No. 2695 ...	8·5†	87·26	6	8 51 26·750	+ 2·9013	— 0·001	...	...
1024	...	...	...	12145	Lalande 17646	6·6*	89·52	6	8 51 27·743	+ 2·7862	0·000	...	...
1025	1260	212	3048	...	9 Ursæ Majoris.....ι	3·2	...	...	8 51 40	+ 4·1781	— 0·044	—0·0441	...
1026	1269	222	3055	...	65 Cancri.....α	4·3	87·56	9	8 52 28·262	+ 3·2849	— 0·010	+0·0010	+ 0·002
1027†	3626	...	3064	12175	Carinæ c	4·0	89·94	12	8 52 33·128	+ 1·3674	— 0·008	—0·003	0·000
1028	...	...	...	12196	C.G.A. 12196	8¼*	87·26	1	8 53 29·600	+ 2·2299	+ 0·004	...	...
1029	1268	223	3059	...	10 Ursæ Majoris	4·2	89·25	4	8 53 29·883	+ 3·9541	— 0·034	—0·0401	— 0·030
1030	3639	...	3073	12221	Carinæ .....b^1	5·1	88·02	12	8 54 16·775	+ 1·4729	— 0·005	...	...
1031	...	...	...	...	C.P.D. — 40° No. 3024...	9·6‡	87·25	3	8 54 25·710	+ 2·2305	+ 0·004	...	...
1032	...	233	3076	...	Piazzi VIII. 233.....	6·5†	88·49	15	8 55 42·839	+ 3·1749	— 0·007	...	...
1033	1272	230	3075	...	12 Ursæ Majoris.....κ	3·7	90·00	1	8 56 6·720	+ 4·1248	— 0·043	—0·0036	0·000
1034	3661	...	3089	12286	Carinæ .....b^2	5·2	91·22	12	8 56 42·160	+ 1·4978	— 0·004	—0·020*	+ 0·024
1035	...	...	...	...	✳	9·4‡	87·24	5	8 58 4·310	+ 1·7807	0·000	...	...
1036	...	...	...	...	Gilliss P.Z. 6047.....	8·3‡	91·49	2	8 58 23·508	—17·388	— 5·550	...	...
1037	...	...	...	12334	C.G.A. 12334	9*	87·19	2	8 58 26·520	+ 1·7782	0·000	...	...
1038†	3677	...	3110	12372	Velorum c	3·7	88·29	13	9 0 21·566	+ 2·0724	+ 0·004	—0·0082	— 0·014
1039	3709	...	3119	12383	Lacaille 3709	7·1*	86·90	12	9 0 35·297	— 0·2085	— 0·087	—0·006*	— 0·019
1040†	3696	...	3114	12378	Volantis.....α	4·1	89·30	10	9 0 42·430	+ 0·9601	— 0·022	—0·0041	— 0·003
1041	3724	...	...	12393	Lacaille 3724	8·2	88·24	29	9 1 8·292	— 0·5107	— 0·111	...	...
1042	1287	255	3111	...	76 Cancri.....κ	5·0	86·76	17	9 1 47·379	+ 3·2567	— 0·009	—0·0028	— 0·009
1043	3693	...	...	12397	Lacaille 3693 .....*pr.*	6·9*	94·18	4	9 1 51·900	+ 1·6057	— 0·002	...	...
1044	...	...	...	...	C.Z. IX. 229.....	8¾*	87·22	4	9 3 13·300	+ 1·8063	+ 0·001	...	...
1045	3701	...	...	12434	Lacaille 3701	7*	90·69	4	9 3 41·900	+ 1·9336	+ 0·003	...	...
1046†	3699	1	3126	12438	Argûs .....λ	2·1	88·25	12	9 3 56·948	+ 2·2067	+ 0·004	—0·0052	— 0·009
1047	1294	267	3124	12440	20 Hydræ	5·6	94·19	4	9 4 12·810	+ 2·9365	— 0·002	—0·0028	+ 0·012
1048	...	...	...	...	C.Z. IX. 366.....	8½*	87·22	4	9 4 44·720	+ 1·8057	+ 0·001	...	...
1049†	3736	...	3136	12472	Carinæ .....G	4·5	90·09	12	9 4 51·009	+ 0·1981	— 0·062	—0·015	+ 0·001
1050	3778	...	...	12533	Lacaille 3778	7¾*	88·24	29	9 7 27·633	— 0·6268	— 0·127	...	...

1029. B.A.C. assigns to Lynx.

No.	Mean Date. 1800+	No. of Obs.	Mean Dec. 1890·0.	Sec. of Final Dec.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_δ.	Corr. for μ_δ to 1890·0.	Fallows and Henderson.	Johnson.	Cape Catalogues. 1840.	1850.	1860.	1880.	1885.	Melbourne, 1870 and 1880.
			° ′ ″	″	″	″	″	″								
1016	87·24	3	— 40 39 5·84	5·95	— 13·416	— 0·24	...	...	...	...	...	...	...	...	...	...
1017	89·29	15	— 66 22 56·78	56·93	— 13·488	— 0·08	...	...	...	...	...	1599	...	4722	...	442
1018†	90·51	6	— 51 42 48·25	48·57	— 13·506	— 0·19	...	...	...	...	...	1595	...	4723	...	...
1019	88·87	38	+ 6 21 49·93	49·61	— 13·521	— 0·34	+ 0·016	+0·02	...	...	...	...	...	4724	620	...
1020	93·13	11	— 79 5 48·12	48·30	— 13·544	+ 0·23	...	...	...	...	1115	1610	...	4739	...	...
1021*	91·49	2	— 88 6 11·42	11·45	— 13·549	+ 2·87	...	...	...	...	...	...	...	...	...	...
1022	91·03	6	+ 30 39 21·09	20·39	— 13·631	— 0·38	+ 0·020	—0·02	...	...	...	...	...	...	...	...
1023	87·26	6	— 9 54 47·76	47·95	— 13·641	— 0·31	...	...	...	...	...	...	...	...	...	...
1024	89·52	6	— 16 17 10·33	10·67	— 13·642	— 0·29	...	...	...	...	...	...	...	...	621	...
1025	91·27	11	+ 48 28 24·47	23·17	— 13·655	— 0·44	— 0·247	+0·31	*170*	...	1103	1601	...	...	622	444*
1026	87·30	10	+ 12 16 59·65	59·27	— 13·706	— 0·34	— 0·022	—0·06	168	...	1108	1606	351	4752	624	*526*
1027	90·27	11	— 60 13 28·11	28·38	— 13·711	— 0·14	+ 0·05	—0·01	...	...	1113	1611	...	4755	625	445
1028	87·26	1	— 40 55 34·56	34·67	— 13·772	— 0·23	...	...	...	...	...	...	...	...	...	...
1029*	90·42	12	+ 42 13 5·43	4·55	— 13·772	— 0·41	— 0·259	+0·11	...	...	...	...	...	...	...	*527*
1030	88·02	12	— 58 48 17·60	17·73	— 13·822	— 0·15	...	...	169	210	1116	1618	354	4770	...	447
1031*	87·25	3	— 41 1 1·29	1·41	— 13·834	— 0·23	...	...	...	...	...	...	...	...	...	...
1032	88·36	16	+ 6 4 17·84	17·54	— 13·912	— 0·33	...	...	...	...	...	...	...	...	...	...
1033	90·91	11	+ 47 35 29·90	28·65	— 13·937	— 0·43	— 0·068	+0·06	...	...	...	...	...	...	629	...
1034	91·22	12	— 58 39 45·62	45·97	— 13·974	— 0·15	+ 0·24*	—0·29	170	211	1121	1625	357	4796	...	450
1035*	87·24	5	— 53 34 36·14	36·22	— 14·060	— 0·18	...	...	...	...	...	...	...	...	...	...
1036*	91·49	2	— 87 20 10·72	10·75	— 14·079	+ 1·81	...	...	...	...	...	...	...	...	...	...
1037	87·19	2	— 53 40 19·71	19·77	— 14·082	— 0·18	...	...	...	...	...	...	...	...	...	...
1038	88·29	13	— 46 39 36·50	36·69	— 14·202	— 0·21	— 0·019	—0·03	...	212	1125	1632	358	4830	...	452
1039	86·90	12	— 73 57 59·45	59·61	— 14·216	+ 0·03	— 0·01*	—0·03	...	...	1129	1634	...	4833	...	...
1040	89·30	10	— 65 57 25·03	25·23	— 14·223	— 0·09	— 0·108	—0·08	...	213	1126	1633	...	4831	...	454*
1041	88·24	31	— 75 17 29·52	29·52	— 14·249	+ 0·06	...	...	...	...	...	...	...	4838	...	...
1042	86·72	18	+ 11 6 38·20	37·84	— 14·289	— 0·33	+ 0·009	+0·03	171	...	...	...	359	4839	631	*532*
1043†	94·18	4	— 57 24 49·88	49·92	— 14·295	— 0·16	...	...	...	...	1128	...	...	4842	...	...
1044	87·22	4	— 53 38 50·20	50·27	— 14·377	— 0·18	...	...	...	...	...	...	...	...	...	...
1045	90·69	4	— 50 46 6·52	6·90	— 14·407	— 0·19	...	...	...	...	...	...	...	4857	...	...
1046	88·25	12	— 42 59 19·42	19·65	— 14·422	— 0·22	+ 0·010	+0·02	172*	214	1131	1640	363	4860	633	457
1047	94·19	4	— 8 20 29·10	29·27	— 14·438	— 0·29	+ 0·009	—0·04	...	...	...	1639	...	4861	...	...
1048	87·22	4	— 53 50 52·94	53·01	— 14·470	— 0·18	...	...	...	...	...	...	...	...	...	...
1049	90·09	12	— 72 9 35·54	35·78	— 14·476	— 0·01	+ 0·007	0·00	...	215	1135	1646	365	4872	...	458
1050	88·24	30	— 76 7 16·01	16·00	— 14·634	+ 0·07	...	...	...	...	...	...	...	4897	...	...

1018. $7^m·2$, $9^m·2$ 3″·8 78° 1877·7. Fainter star probably not seen.
1021, 1035, 1036. Magnitude from Cape observations.
1043. $6^m·9$, $10^m·2$ 3″± 164° 1836·6. Brighter star observed.

1021, 1036. Observed only *S.P.*
1031. Magnitude from *Cordoba Durchmusterung*.

No.	Bradley or Lacaille.	Piazzi. 1800.	B.A.C. 1850.	C.G.A. 1875.	Star's Name.	Mag.	Mean Date. 1800+	No. of Obs.	Mean R.A. 1890·0.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_α.	Corr. for μ_α to 1890·0.
									h m s	s	s	s	s
1051	...	...	...	...	W.B. IX. 112	8·4†	87·28	3	9 7 55·950	+2·9060	— 0·001	...	...
1052	3738	...	3149	12535	Carinæ ..... *a*	3·5	89·78	10	9 8 4·213	+1·5842	— 0·002	...	...
1053	1300	14	3144	...	Bradley 1300	6·3†	90·72	6	9 8 29·098	+3·7115	— 0·027	—0·0124	+ 0·009
1054	3742	...	...	12548	Lacaille 3742	7*	94·18	4	9 8 32·160	+1·6440	— 0·001	...	...
1055*	1303	18	3146	...	22 Hydræ .....*θ*	3·9	89·08	38	9 8 38·470	+3·1166	— 0·006	+0·0078	+ 0·007
1056	3753	...	3152	12557	Carinæ ....*i*	4·2	90·46	6	9 8 46·653	+1·3737	— 0·008	—0·015*	+ 0·007
1057	...	...	...	...	C.Z. IX. 666.....	9½*	87·24	3	9 8 57·240	+1·8311	+ 0·002	...	...
1058	1304	20	3147	...	82 Cancri .....*π*	5·6	91·09	5	9 9 9·500	+3·3222	— 0·012	—0·0029	+ 0·003
1059	3762	...	3167	12613	Lacaille 3762	5·2	91·05	4	9 11 2·162	+1·7835	+ 0·001	...	...
1060	3758	...	3166	12618	Lacaille 3758 (as one mass)	6·5	94·23	4	9 11 15·500	+2·1716	+ 0·005	...	...
1061	1308	32	3161	12611	24 Hydræ	5·5	94·20	4	9 11 18·020	+2·9418	— 0·002	—0·0028	+ 0·012
1062†	3791	...	3177	12636	Argûs.....*β*	1·7	93·50	12	9 11 59·355	+0·7096	— 0·035	—0·0316	+ 0·111
1063	1305	29	3162	...	38 Lyncis	*	89·20	1	9 11 59·970	+3·7531	— 0·029	—0·0031	— 0·002
1064	3953	...	3211	12688	Octantis.....*ζ*	*	91·40	52	9 12 31·822	—7·600	— 1·583	—0·114†	+ 0·155
1065	1309	42	3171	...	83 Cancri	6·6	88·13	39	9 12 50·537	+3·3649	— 0·013	—0·0090	— 0·017
1066	...	...	...	...	C.P.D. — 42° No. 3546..	9·4‡	87·22	4	9 13 39·090	+2·2550	+ 0·005	...	...
1067†	3792	...	3186	12672	Argûs .....*ι*	2·2	87·52	21	9 14 8·674	+1·6101	— 0·002	—0·0051	— 0·013
1068	1312	48	3178	...	40 Lyncis	3·4	91·75	12	9 14 21·169	+3·6884	— 0·027	—0·0202	+ 0·035
1069	...	52	...	12671	Piazzi IX. 52	5·9	94·19	4	9 14 21·570	+2·8294	+ 0·001	...	...
1070	...	...	...	...	W. B. IX. 259.....	8·3†	87·24	2	9 14 26·340	+2·9051	— 0·001	...	...
1071	1314	53	3184	12673	26 Hydræ	4·9	89·35	8	9 14 28·514	+2·8925	0·000	—0·0027	— 0·002
1072	1317	57	3188	12687	27 Hydræ	4·9	91·21	3	9 15 6·780	+2·9316	— 0·001	—0·0016	+ 0·002
1073	...	...	...	...	C.Z. IX. 1175	9*	87·21	1	9 15 17·270	+2·2588	+ 0·006	...	...
1074	3806	...	...	12706	Lacaille 3806	8*	91·75	6	9 15 26·797	+0·9788	— 0·023	...	...
1075	...	59	...	12703	Piazzi IX. 59	6·7*	90·62	5	9 15 43·118	+2·8347	+ 0·001	...	...
1076	...	...	...	...	B.D. — 10° No. 2814 ...	9·2†	88·51	3	9 16 15·367	+2·9060	— 0·001	...	...
1077*	3793	63	3195	12728	Pyxidis .....*θ*	4·9	89·22	3	9 16 37·410	+2·6555	+ 0·003	—0·0031	— 0·002
1078	...	...	...	...	C.Z. IX. 1284	8½*	87·20	1	9 16 38·380	+2·2681	+ 0·006	...	...
1079	3803	...	3205	12753	Lacaille 3803	6·4*	94·22	11	9 17 37·410	+2·2968	+ 0·006	...	...
1080	3906	...	...	12790	Lacaille 3906	7·7	88·18	16	9 17 42·685	—2·6152	— 0·403	...	...
1081	3823	...	3212	12782	Carinæ .....*k*	4·8	90·98	4	9 18 18·272	+1·4465	— 0·006	...	...
1082	3814	...	...	12784	Lacaille 3814	7½*	87·73	6	9 18 26·075	+1·7667	+ 0·002	...	...
1083	3813	...	3210	12785	Lacaille 3813	5·7	91·27	4	9 18 29·060	+1·8335	+ 0·002	...	...
1084†	3816	...	3213	12788	Argûs .....*κ*	2·6	91·19	14	9 18 42·401	+1·8578	+ 0·003	—0·0046	+ 0·005
1085	3955	...	...	12834	Lacaille 3955	7·8	88·32	17	9 19 15·131	—4·2502	— 0·731	...	...

1058. π^2 Cancri in B.A.C.
1072. P Hydræ in C.G.A.

1068. *a* Lyncis in B.A.C.
1077. Fundamental star for southern Zones. *h* Mali in B.A.C.

No.	Mean Date. 1800+	No. of Obs.	Mean Dec. 1890·0.	Sec. of Final Dec.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_δ.	Corr. for μ_δ to 1890·0.	Fallows and Henderson.	Johnson.	Cape Catalogues. 1840.	1850.	1860.	1880.	1885.	Melbourne, 1870 and 1880.
			° ′ ″	″	″	″	″									
1051	87·28	3	— 10 20 41·20	41·40	— 14·662	— 0·28	...	...	...	...	...	...	...	...	...	...
1052	89·78	10	— 58 30 59·38	59·64	— 14·670	— 0·15	...	...	...	216	1138	1652	...	4898	637	459
1053	90·78	7	+ 35 5 13·39	12·65	— 14·695	— 0·36	+ 0·056	—0·04	...	...	...	...	...	...	...	...
1054	94·18	4	— 57 31 0·86	0·90	— 14·698	— 0·16	...	...	...	...	...	...	...	4908	...	...
1055	88·69	49	+ 2 46 41·36	41·01	— 14·704	— 0·30	— 0·309	—0·40	...	...	...	...	...	4904	638	*538*
1056	90·46	6	— 61 51 56·48	56·81	— 14·712	— 0·13	0·00*	0·00	...	217	1140	1654	368	4910	639	460
1057	87·24	3	— 53 49 39·17	39·25	— 14·722	— 0·18	...	...	...	...	...	...	...	...	...	...
1058*	91·34	6	+ 15 23 50·74	50·17	— 14·735	— 0·32	+ 0·020	—0·03	...	...	...	...	367	...	...	...
1059	91·05	4	— 55 6 50·28	50·64	— 14·846	— 0·17	...	...	...	...	1147	1667	...	4936	...	...
1060†	94·23	4	— 45 5 52·26	52·35	— 14·859	— 0·21	...	...	...	...	...	1666	...	4939	...	...
1061	94·20	4	— 8 17 9·51	9·67	— 14·861	— 0·28	+ 0·025	—0·11	...	...	...	1663	369	4937	641	...
1062	93·50	12	— 69 15 50·59	50·69	— 14·901	— 0·06	+ 0·093	—0·33	174*	218	1151	1672	373	4949	643	464
1063†	92·26	7	+ 37 16 3·56	2·90	— 14·902	— 0·36	— 0·114	+0·26	...	...	...	...	...	...	642	...
1064†	89·87	152	— 85 13 18·25	18·30	— 14·933	+ 0·75	+ 0·044†	+0·01	...	...	1165	1695	377	4967	645	467*
1065	88·19	31	+ 18 10 17·48	17·16	— 14·951	— 0·32	— 0·139	—0·25	...	...	1148	...	372	4956	644	463*
1066*	87·22	4	— 42 39 15·39	15·48	— 14·998	— 0·21	...	...	...	...	...	...	...	...	...	...
1067	87·52	21	— 58 48 49·91	50·10	— 15·027	— 0·15	0·000	0·00	175*	219	1154	1677	374	4968	646	466*
1068*	91·75	12	+ 34 51 26·94	26·34	— 15·039	— 0·35	+ 0·027	—0·05	...	...	...	...	...	...	647	...
1069	94·19	4	— 15 22 8·12	8·27	— 15·039	— 0·27	...	...	...	...	...	...	...	4969	...	...
1070	87·24	2	— 10 43 44·22	44·39	— 15·044	— 0·27	...	...	...	...	...	...	...	...	...	...
1071	89·35	8	— 11 30 39·34	39·67	— 15·046	— 0·27	+ 0·024	+0·02	...	...	...	1675	...	4971	...	...
1072*	91·21	3	— 9 5 22·09	22·57	— 15·083	— 0·28	— 0·007	+0·01	...	...	...	1679	...	4978	...	...
1073	87·21	1	— 42 45 19·37	19·46	— 15·093	— 0·21	...	...	...	...	...	...	...	...	...	...
1074	91·75	6	— 67 12 48·46	48·74	— 15·102	— 0·09	...	...	...	...	...	...	...	4985	...	...
1075	90·62	5	— 15 8 53·52	53·93	— 15·118	— 0·26	...	...	...	...	...	...	...	...	...	...
1076	88·51	3	— 10 45 57·17	57·44	— 15·149	— 0·27	...	...	...	...	...	...	...	...	...	...
1077*	89·22	3	— 25 29 50·76	51·02	— 15·169	— 0·25	— 0·007	—0·01	176	220	1156	1685	376	4996	649	468*
1078	87·20	1	— 42 36 57·54	57·62	— 15·170	— 0·21	...	...	...	...	...	...	...	...	...	...
1079	94·22	12	— 41 43 28·28	28·38	— 15·227	— 0·21	...	...	...	...	...	1690	...	5002	...	...
1080	88·18	16	— 81 18 30·08	30·05	— 15·232	+ 0·25	...	...	...	...	...	...	...	5016	...	...
1081	90·98	4	— 61 56 9·41	9·76	— 15·265	— 0·13	...	...	...	...	1160	1694	...	5014	...	...
1082	87·73	6	— 56 26 6·24	6·40	— 15·273	— 0·16	...	...	...	...	...	...	...	5015	...	...
1083	91·27	4	— 55 2 50·50	50·88	— 15·276	— 0·17	...	...	...	...	...	1693	...	5017	...	...
1084	91·19	14	— 54 32 27·96	28·27	— 15·288	— 0·17	+ 0·015	—0·02	177*	221	1161	1696	378	5018	651	469
1085	89·48	22	— 83 16 51·90	51·90	— 15·319	+ 0·41	...	...	...	...	...	...	...	5032	...	...

1060. $7^m·0$, $7^m·5$ $1'' \pm$ $270° \pm$ 1894·9. Observed as one mass.
1063. $3^m·9$, $6^m·6$ $2''·7$ 240°. No note of duplicity.
1064. $5^m·5$, $9^m·5$ $1''·7$ 113°. Fainter star probably not seen. Proper Motion determined for this Catalogue.
1066. Magnitude from Cape observations.

No.	Bradley or Lacaille.	Piazzi. 1800.	B.A.C. 1850.	C.G.A. 1875.	Star's Name.	Mag.	Mean Date. 1800+	No. of Obs.	Mean R.A. 1890·0.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_α.	Corr. for μ_α to 1890·0.
									h m s	s	s	s	s
1086	...	...	...	...	C.Z. IX. 1498	8¾*	87·25	3	9 19 16·270	+ 2·2645	+ 0·006	...	...
1087	...	...	...	12825	Lalande 18583.....	7*	88·46	4	9 20 27·525	+ 3·0611	— 0·004	...	...
1088	...	...	...	...	Lalande 18553.....	6·8†	...	...	9 20 28	+ 3·8786	— 0·038	...	...
1089	3837	...	...	12832	Lacaille 3837	6·5	94·22	4	9 20 31·780	+ 1·5985	— 0·002	...	...
1090	3847	...	3225	12847	Lacaille 3847	6·4*	90·87	12	9 21 18·342	+ 1·5217	— 0·004	...	...
1091	3844	...	...	12864	Lacaille 3844	7¼*	90·45	6	9 22 1·625	+ 1·9535	+ 0·004	...	...
1092	3839	...	...	12866	Lacaille 3839	7¼*	92·40	6	9 22 9·728	+ 2·3135	+ 0·006	...	...
1093*	1330	89	3223	12862	30 Hydræ .....*a*	2·0	89·48	50	9 22 10·918	+ 2·9504	— 0·001	—0·0019	— 0·001
1094	...	...	3226	12867	Lalande 18657.....	5·3	92·77	4	9 22 19·770	+ 2·9894	— 0·002	—0·015†	+ 0·042
1095	...	...	...	...	Lalande 18616.....	7·2†	92·77	6	9 22 35·490	+ 3·2661	— 0·010	...	...
1096	...	96	3240	12908	Piazzi IX. 96	6·6*	89·44	8	9 23 49·900	+ 3·0471	— 0·004	...	...
1097	3951	...	...	12947	Lacaille 3951	7·6	88·77	13	9 24 4·610	— 1·6590	— 0·274	...	...
1098†	3861	103	3244	12930	Antliæ.....ε	4·4	91·06	12	9 24 42·293	+ 2·4753	+ 0·006	—0·0045	+ 0·005
1099	3859	101	3243	12932	Lacaille 3859	7¼*	87·16	1	9 24 48·290	+ 2·6619	+ 0·004	...	...
1100	3860	105	3248	12942	Lacaille 3860	5·7	91·77	11	9 25 1·590	+ 2·6625	+ 0·004	...	...
1101	3933	...	...	12993	Lacaille 3933	8·0	88·11	10	9 25 49·178	— 0·1016	— 0·098	...	...
1102†	3885	116	3257	12989	Argûs (as one mass)..ψ	3·5	90·36	12	9 26 22·021	+ 2·3760	+ 0·007	—0·0192	+ 0·007
1103	3922	...	3266	13010	Lacaille 3922	7*	88·03	9	9 26 44·995	+ 0·6237	— 0·045	...	...
1104	1337	107	3252	...	9 Leonis Minoris	6·8†	89·23	3	9 26 45·280	+ 3·6964	— 0·030	+0·0012	+ 0·001
1105	4027	...	...	13051	Lacaille 4027	7·2	88·40	18	9 27 8·799	— 5·0515	— 0·990	...	...
1106	1340	111	3261	...	10 Leonis Minoris	4·7	90·00	1	9 27 29·060	+ 3·6919	— 0·029	+0·0008	0·000
1107	3981	...	3279	13048	Chamælcontis .....ι	5·3	87·37	5	9 27 47·670	— 1·7541	— 0·298	—0·060*	— 0·158
1108†	3910	...	3269	13030	Velorum .....N	Var.	92·86	10	9 27 52·695	+ 1·8259	+ 0·003	—0·0064	+ 0·018
1109	...	...	...	13024	Lalande 18803.....	6·6*	90·21	14	9 27 53·164	+ 2·9757	— 0·002	...	...
1110	3900	122	3267	13028	Lacaille 3900	5·4	94·28	4	9 27 57·319	+ 2·3776	+ 0·007	...	...
1111*	...	...	...	13031	Lalande 18817.....	5·2	89·09	7	9 28 8·553	+ 2·7629	+ 0·003	0·000	0·000
1112	...	...	...	...	C.P.D. — 44° No. 3861..	9·1‡	87·24	3	9 28 57·110	+ 2·2799	+ 0·007	...	...
1113	3940	...	3277	13068	Lacaille 3940	6·7*	88·05	6	9 29 20·221	+ 1·2175	— 0·015	...	...
1114	...	...	...	...	C.P.D. — 44° No. 3867..	9·1‡	87·30	1	9 29 21·060	+ 2·2817	+ 0·007	...	...
1115	...	...	...	...	W.B. IX. 603	7·5†	91·19	6	9 30 38·080	+ 3·4123	— 0·017	...	...
1116†	3968	...	3291	13107	Carinæ .....H	5·5	93·02	9	9 30 46·676	+ 0·4881	— 0·055	—0·009	+ 0·027
1117	3970	...	...	13109	Lacaille 3970	8¼*	88·23	14	9 30 48·031	+ 0·3790	— 0·063	...	...
1118	...	...	...	...	C.Z. IX. 2457	9½*	87·24	3	9 31 5·690	+ 2·2809	+ 0·007	...	...
1119†	3949	...	3289	13112	Carinæ .....*h*	4·2	92·47	10	9 31 15·190	+ 1·7415	+ 0·001	—0·0032	+ 0·008
1120	1346	126	3281	...	42 Lyncis	5·3	89·15	1	9 31 29·400	+ 3·7674	— 0·034	—0·0022	— 0·002

1111. Fundamental star for Southern Zones.

No.	Mean Date. 1800+	No. of Obs.	Mean Dec. 1890·0.	Sec. of Final Dec.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_δ.	Corr. for μ_δ to 1890·0.	Fallows and Henderson.	Johnson.	Cape Catalogues. 1840.	1850.	1860.	1880.	1885.	Melbourne, 1870 and 1880.
			° ′ ″	″	″	″	″	″								
1086	87·25	3	− 43 7 49·66	49·79	− 15·320	− 0·21	...	...	...	...	...	...	...	...	...	...
1087	87·87	6	− 0 45 35·83	36·13	− 15·387	− 0·28	...	...	...	...	...	...	...	...	...	...
1088	91·25	6	+ 43 14 28·53	27·56	− 15·389	− 0·36	...	...	...	...	...	...	...	...	...	...
1089	94·22	4	− 59 49 46·97	47·02	− 15·391	− 0·14	...	...	...	...	...	...	...	5036	...	...
1090	90·87	12	− 61 10 24·63	24·96	− 15·434	− 0·14	...	...	...	...	...	1705	...	5048	...	...
1091	90·45	6	− 52 46 25·24	25·57	− 15·475	− 0·17	...	...	...	...	...	...	...	5056	...	...
1092	92·40	6	− 41 46 28·55	28·77	− 15·483	− 0·21	...	...	...	...	...	...	...	5058	...	...
1093	90·54	67	− 8 10 55·59	55·89	− 15·484	− 0·27	+ 0·052	−0·03	178*	222	1166	1704	379	5055	653	471*
1094*	92·77	4	− 5 35 27·89	28·21	− 15·492	− 0·27	− 0·06†	+0·17	...	...	...	1706	...	5059	...	...
1095	92·77	6	+ 12 51 51·90	51·49	− 15·506	− 0·30	...	...	...	...	...	...	...	...	...	...
1096	89·44	8	− 1 43 29·36	29·76	− 15·575	− 0·27	...	...	...	...	...	1714	...	5081	...	...
1097	90·01	15	− 79 55 17·22	17·26	− 15·589	+ 0·16	...	...	...	...	...	...	...	5092	...	...
1098	91·06	12	− 35 28 13·65	14·07	− 15·623	− 0·22	− 0·017	+0·02	...	...	1173	1716	...	5090	...	551
1099	87·16	1	− 26 6 41·91	42·03	− 15·628	− 0·24	...	...	...	...	1175	1715	...	5091	...	474
1100	91·77	11	− 26 6 27·97	28·20	− 15·641	− 0·24	...	...	...	...	1177	1719	...	5095	...	476
1101	90·31	15	− 75 17 39·66	39·72	− 15·684	+ 0·02	...	...	...	...	...	...	...	5120	...	...
1102†	90·36	12	− 39 59 7·05	7·39	− 15·714	− 0·21	+ 0·083	−0·03	...	224	1181	1725	381	5124	658	477
1103	88·00	8	− 71 18 2·86	2·87	− 15·734	− 0·05	...	...	...	...	...	1731	...	5133	...	...
1104	90·61	5	+ 36 58 27·50	26·87	− 15·734	− 0·33	− 0·028	+0·02	...	...	...	...	...	...	...	...
1105	88·94	19	− 84 11 16·19	16·17	− 15·756	+ 0·46	...	...	...	...	1198	...	...	5145	...	...
1106	91·67	12	+ 36 53 8·65	7·93	− 15·774	− 0·32	− 0·010	+0·02	...	...	...	...	...	...	660	...
1107*	86·93	15	− 80 18 41·63	41·73	− 15·790	+ 0·16	+ 0·08*	+0·23	...	...	1191	1740	383	5146	663	...
1108*	92·86	10	− 56 32 57·21	57·37	− 15·796	− 0·16	+ 0·010	−0·03	...	225	1186	1734	382	5143	661	479
1109	90·21	14	− 6 42 9·41	9·84	− 15·796	− 0·26	...	...	...	...	...	...	...	...	...	...
1110	94·28	4	− 40 9 46·72	46·84	− 15·799	− 0·21	...	...	...	...	1185	1732	...	5142	...	554
1111*	89·23	8	− 20 37 44·86	45·13	− 15·810	− 0·24	+ 0·02	+0·02	...	...	...	...	...	...	662	555
1112*	87·24	3	− 44 4 22·85	22·95	− 15·853	− 0·20	...	...	...	...	...	...	...	...	...	...
1113	88·05	6	− 66 13 56·83	57·02	− 15·874	− 0·10	...	...	...	...	...	1738	...	5156	...	...
1114*	87·30	1	− 44 4 16·34	16·47	− 15·874	− 0·20	...	...	...	...	...	...	...	...	...	...
1115	91·19	6	+ 22 44 12·78	12·16	− 15·943	− 0·30	...	...	...	...	...	...	...	...	...	...
1116	93·02	9	− 72 35 34·69	34·79	− 15·951	− 0·04	0·00	0·00	...	...	1195	1742	...	5174	...	...
1117	88·23	13	− 73 15 36·42	36·43	− 15·952	− 0·03	...	...	...	...	...	...	...	5176	...	...
1118	87·24	3	− 44 22 59·66	59·77	− 15·967	− 0·20	...	...	...	...	...	...	...	...	...	...
1119	92·47	10	− 58 44 21·65	21·87	− 15·976	− 0·15	+ 0·010	−0·02	...	226	1192	1741	...	5179	...	481
1120	90·88	6	+ 40 43 60·32	59·46	− 15·988	− 0·33	+ 0·008	−0·01	...	...	...	...	...	...	...	...

1094. Proper Motion from *Cincinnati Publications*, No. 12.
1102. $3^{m}\cdot7$, $5^{m}\cdot7$ $0''\cdot54$ 258° 1897·1. Probably binary. Observed as one mass.
1107. R.A. observed only *S.P.*
1108. Limits of magnitude, 3·4 – 4·4 : Short period.
1112, 1114. Magnitude from Cape observations.

No.	Bradley or Lacaille.	Piazzi. 1800.	B.A.C. 1850.	C.G.A. 1875.	Star's Name.	Mag.	Mean Date. 1800+	No. of Obs.	Mean R.A. 1890·0.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_a.	Corr. for μ_a to 1890·0.
									h m s	s	s	s	s
1121	3928	...	...	13122	Lacaille 3928	6·0	94·23	4	9 32 3·330	+ 2·7008	+ 0·004	...	...
1122	3950	...	3298	13135	Lacaille 3950	6¾*	89·26	4	9 32 25·990	+ 2·1731	+ 0·007	...	...
1123	1353	140	3293	13127	34 Hydræ	6·7*	94·21	3	9 32 27·900	+ 2·9464	— 0·001	— 0·0057	+ 0·024
1124	...	135	3292	...	Piazzi IX. 135.....	6·5†	90·20	4	9 32 44·290	+ 3·3767	— 0·015	...	...
1125†	3952	...	3300	13145	Velorum ....M	4·4	91·24	11	9 32 53·290	+ 2·1563	+ 0·007	— 0·012	+ 0·015
1126	3946	...	...	13142	Lacaille 3946	6·4*	94·27	4	9 32 53·309	+ 2·4994	+ 0·007	...	...
1127	4017	...	...	13167	Lacaille 4017	8·0	94·03	9	9 33 12·758	— 1·8242	— 0·323	...	...
1128	1356	144	3303	13164	35 Hydræ .....ι	4·2	90·93	11	9 34 14·317	+ 3·0636	— 0·004	+ 0·0015	— 0·001
1129	...	...	...	...	C.P.D. — 44° No. 3976..	9·2‡	88·56	3	9 34 28·260	+ 2·2930	+ 0·008	...	...
1130	...	...	...	...	C.Z. IX. 2715	9*	87·32	1	9 34 54·470	+ 2·2834	+ 0·008	...	...
1131*	1362	154	3311	13184	38 Hydræ .....ε	4·9	88·73	4	9 35 1·958	+ 2·8779	+ 0·001	— 0·0017	— 0·002
1132	...	145	...	...	Piazzi IX. 145.....	6·1	91·21	6	9 35 4·670	+ 3·5620	— 0·024	...	...
1133	...	...	...	...	C.Z. IX. 2746	9½*	88·22	2	9 35 15·205	+ 2·2921	+ 0·008	...	...
1134	1360	151	3312	...	14 Leonis.....o	3·8	89·46	26	9 35 16·808	+ 3·2172	— 0·009	— 0·0104	— 0·006
1135	4042	...	...	13222	Lacaille 4042	8·8	88·24	29	9 35 37·317	— 2·0061	— 0·361	...	...
1136	...	...	...	13213	Hydræ I	4·6	94·21	12	9 36 15·800	+ 2·7380	+ 0·004	...	...
1137	3987	...	3320	13217	Carinæ .....m	4·6	91·29	4	9 36 18·150	+ 1·6673	0·000	...	...
1138	4048	...	3334	13246	Chamæleontis .....ζ	5·2	86·36	14	9 37 5·930	— 1·5657	— 0·293	...	...
1139	3990	...	3326	13234	Lacaille 3990	5·4	90·30	12	9 37 19·247	+ 1·8496	+ 0·004	...	...
1140	3992	...	...	13238	Lacaille 3992	6·6*	94·24	4	9 37 33·610	+ 1·8849	+ 0·005	...	...
1141†	3991	166	3332	13265	Antliæ .....θ	4·9	89·53	13	9 39 17·861	+ 2·6756	+ 0·005	— 0·0036	— 0·002
1142	1368	164	3331	...	17 Leonis.....ε	3·1	89·08	12	9 39 36·462	+ 3·4192	— 0·018	— 0·0043	— 0·004
1143	...	...	...	...	C.Z. IX. 3183	8½*	87·29	3	9 41 20·510	+ 1·9656	+ 0·006	...	...
1144	...	...	...	...	Lalande 19204.....	7·8†	87·21	4	9 41 26·360	+ 2·9188	0·000	...	...
1145	4028	...	3351	13332	Lacaille 4028	6·9*	94·19	4	9 42 9·130	+ 1·9218	+ 0·006	...	...
1146†	4033	...	3353	13336	Carinæ.....l	Var.	90·44	12	9 42 13·344	+ 1·6504	0·000	— 0·0043	+ 0·002
1147	...	...	...	...	W.B. IX. 906	9·0†	87·22	3	9 42 58·770	+ 2·9196	0·000	...	...
1148	4050	...	...	13367	Lacaille 4050	7*	88·24	28	9 43 6·510	+ 1·0874	— 0·022	...	...
1149	...	183	...	...	Piazzi IX. 183.....	7·0†	86·90	6	9 43 55·479	+ 3·4224	— 0·018	...	...
1150	...	...	...	...	Lalande 19263.....	7·2†	90·81	5	9 44 17·426	+ 3·5370	— 0·025	...	...
1151†	4051	...	3365	13389	Argûs .....pr. v	3·0	88·54	10	9 44 21·058	+ 1·5044	— 0·004	— 0·0039	— 0·006
1152	1382	190	3366	...	22 Leonis.....g	5·3	89·75	6	9 45 38·395	+ 3·4161	— 0·018	+ 0·0017	0·000
1153*	1385	193	3368	13412	6 Sextantis	5·9	89·61	31	9 45 41·456	+ 3·0243	— 0·002	+ 0·0005	0·000
1154	1388	196	3372	13425	39 Hydræ .....v^1	4·3	91·25	4	9 46 11·240	+ 2·8842	+ 0·002	— 0·0009	+ 0·001
1155	...	...	...	13480	C.G.A. 13480	7½*	85·80	1	9 46 29·412	— 6·2873	— 1·617	...	...

No.	Mean Date. 1800+	No. of Obs.	Mean Dec. 1890·0.	Sec. of Final Dec.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_δ.	Corr. for μ_δ to 1890·0.	Fallows and Henderson.	Johnson.	Cape Catalogues. 1840.	1850.	1860.	1880.	1885.	Melbourne, 1870 and 1880.
			° ′ ″	″	″	″	″	″								
1121	94·23	4	— 24 48 16·31	16·44	— 16·018	— 0·23	...	...	...	...	...	...	...	5187	...	...
1122	89·26	4	— 48 15 27·37	27·54	— 16·038	— 0·19	...	...	...	...	1196	...	...	5196	...	...
1123	94·21	3	— 8 55 49·43	49·60	— 16·040	— 0·25	+ 0·029	—0·12	...	...	...	1743	...	5192	...	...
1124	90·20	4	+ 20 47 36·22	35·72	— 16·054	— 0·29	...	...	...	...	...	...	...	...	...	*557*
1125	91·24	11	— 48 51 43·90	44·29	— 16·061	— 0·18	+ 0·03	—0·04	...	...	1197	1745	...	5203	667	...
1126	94·27	4	— 35 36 5·89	6·02	— 16·061	— 0·21	...	...	...	...	...	...	...	5202	...	...
1127	94·27	12	— 80 44 2·80	2·85	— 16·078	+ 0·17	...	...	...	...	...	...	...	5215	...	...
1128	90·53	12	— 0 38 37·54	37·98	— 16·132	— 0·26	— 0·063	+0·03	...	227	...	1748	...	5216	668	...
1129*	88·56	3	— 44 30 35·43	35·62	— 16·144	— 0·19	...	...	...	...	...	...	...	...	...	...
1130	87·32	1	— 44 55 46·11	46·24	— 16·167	— 0·19	...	...	...	...	...	...	...	...	...	...
1131	88·73	4	— 13 50 0·75	1·01	— 16·173	— 0·24	+ 0·013	+0·02	...	228	...	1753	...	5225	669	*559*
1132	91·21	6	+ 31 46 38·35	37·63	— 16·176	— 0·30	...	...	...	...	...	...	...	...	...	...
1133	88·22	2	— 44 40 35·19	35·36	— 16·185	— 0·19	...	...	...	...	...	...	...	...	...	...
1134	89·28	29	+ 10 23 32·86	32·44	— 16·186	— 0·27	— 0·018	—0·01	180	...	1201	1754	385	5227	671	*560*
1135	88·24	29	— 81 11 3·32	3·29	— 16·204	+ 0·18	...	...	...	...	...	...	...	5239	...	...
1136	94·21	12	— 23 5 30·26	30·41	— 16·237	— 0·23	...	...	...	...	...	...	...	...	...	...
1137	91·29	4	— 60 49 48·22	48·57	— 16·239	— 0·14	...	...	...	...	1203	1757	386	5240	...	484
1138	86·89	26	— 80 26 48·48	48·62	— 16·280	+ 0·14	...	...	...	...	1211	1764	388	5252	672	486*
1139	90·30	12	— 57 29 0·26	0·63	— 16·291	— 0·15	...	...	...	...	1206	1760	...	5247	...	...
1140	94·24	4	— 56 45 27·81	27·86	— 16·303	— 0·15	...	...	...	...	...	...	...	5249	...	...
1141	89·53	13	— 27 15 57·84	58·15	— 16·391	— 0·22	+ 0·032	+0·02	...	...	1208	1763	...	5261	673	...
1142	88·85	13	+ 24 16 49·82	49·32	— 16·406	— 0·28	— 0·008	—0·01	*156*	...	1207	1762	389	5263	674	487*
1143	87·29	3	— 55 30 40·35	40·44	— 16·493	— 0·16	...	...	...	...	...	...	...	...	...	...
1144	87·21	4	— 11 25 48·71	48·88	— 16·498	— 0·24	...	...	...	...	...	...	...	...	...	...
1145	94·19	4	— 56 40 42·52	42·56	— 16·534	— 0·15	...	...	...	...	1215	1772	...	5289	...	...
1146*	90·44	12	— 62 0 2·36	2·65	— 16·537	— 0·13	+ 0·007	0·00	...	229	1216	1773	393	5291	...	489
1147	87·21	4	— 11 28 36·18	36·35	— 16·575	— 0·23	...	...	...	...	...	...	...	...	...	...
1148	88·24	27	— 69 15 17·12	17·15	— 16·581	— 0·08	...	...	...	...	...	...	...	5302	...	...
1149	86·90	6	+ 25 4 23·19	22·70	— 16·621	— 0·27	...	...	...	...	...	...	...	...	...	...
1150	90·21	6	+ 31 54 19·74	19·11	— 16·639	— 0·28	...	...	...	...	...	...	...	...	...	...
1151†	88·54	10	— 64 33 42·53	42·68	— 16·642	— 0·12	+ 0·011	+0·02	181*	230	1219	1778	394	5311	677	490*
1152	89·75	6	+ 24 54 55·55	55·01	— 16·704	— 0·27	— 0·177	—0·04	...	...	...	...	...	...	...	...
1153	89·72	43	— 3 43 41·09	41·36	— 16·707	— 0·24	— 0·014	0·00	...	...	...	1780	...	5324	679	*570*
1154	91·25	4	— 14 19 51·06	51·53	— 16·731	— 0·23	— 0·015	+0·02	...	231	...	1783	...	5328	...	...
1155*	86·65	3	— 85 30 25·14	25·26	— 16·745	+ 0·51	...	...	...	...	...	...	...	5346	681	...

1129. Magnitude from Cape observations.
1151. $3^m·0$, $7^m·0$ 5″·0 125°. Brighter star observed.

1146. Limits of magnitude, 3·7–5·2 : Period $35^d·05$.
1155. R.A. observed only S.P.

No.	Bradley or Lacaille.	Piazzi. 1800.	B.A.C. 1850.	C.G.A. 1875.	Star's Name.	Mag.	Mean Date. 1800+	No. of Obs.	Mean R.A. 1890·0.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_a.	Corr. for μ_a to 1890·0.
									h m s	s	s	s	s
1156	1384	194	3371	...	24 Leonis .....μ	4·1	90·30	10	9 46 30·458	+ 3·4395	— 0·020	—0·0185	+ 0·006
1157	4169	...	...	13486	Lacaille 4169	7·1*	93·07	23	9 46 42·091	— 6·2742	— 1·615	...	...
1158	...	...	...	13453	Brisbane 2703.....	7¾*	91·04	5	9 47 23·824	+ 2·3156	+ 0·009	...	...
1159†	4057	...	3382	13455	Velorum .....m	4·5	89·24	14	9 47 25·705	+ 2·3148	+ 0·009	—0·003	— 0·002
1160	...	...	...	13500	Lalande 19423.....	6·3*	87·96	13	9 49 25·825	+ 2·7816	+ 0·004	...	...
1161	...	...	...	...	C.Z. IX. 3790	9*	87·28	3	9 49 33·040	+ 2·0091	+ 0·008	...	...
1162	4068	213	3396	13518	Lacaille 4068	5·9	94·21	12	9 49 57·659	+ 2·3599	+ 0·010	...	...
1163	1392	209	3399	...	19 Leonis Minoris	5·2	89·84	3	9 50 56·767	+ 3·7056	— 0·036	—0·0117	— 0·002
1164†	4093	...	3410	13593	Argûs.....ϕ	3·7	88·90	14	9 53 0·024	+ 2·1026	+ 0·009	—0·0037	— 0·004
1165	4094	...	3411	13601	Lacaille 4094	6·5*	91·20	4	9 53 11·770	+ 2·1696	+ 0·010	...	...
1166	4092	...	3414	13607	Lacaille 4092	6¼*	88·67	5	9 53 29·440	+ 2·2968	+ 0·010	...	...
1167†	4095	227	3417	13618	Antliæ .....η	5·3	88·69	16	9 54 9·103	+ 2·5773	+ 0·008	—0·0097	— 0·013
1168	1398	225	3415	...	29 Leonis .....π	5·0	88·84	38	9 54 24·021	+ 3·1775	— 0·008	—0·0040	— 0·005
1169	4109	...	...	13640	Lacaille 4109	7½*	94·21	4	9 54 53·390	+ 1·7638	+ 0·004	...	...
1170	...	...	...	13634	C.G.A. 13634	8*	87·21	1	9 54 54·500	+ 2·3395	+ 0·010	...	...
1171	...	...	...	...	C.Z. IX. 4203	8½*	87·29	2	9 55 0·600	+ 2·0385	+ 0·009	...	...
1172	...	...	...	13685	Lalande 19624.....	6·9*	88·49	8	9 57 12·236	+ 3·0661	+ 0·004	0·0000*	0·000
1173	...	...	...	...	B.D. — 11° No. 2781 ...	9·0†	87·29	4	9 57 16·930	+ 2·9304	+ 0·001	...	...
1174	4120	...	...	13716	Lacaille 4120	6·9*	88·82	16	9 58 33·038	+ 2·6386	+ 0·008	...	...
1175†	4126	...	...	13732	Lacaille 4126	5·7	90·21	11	9 59 16·129	+ 2·7766	+ 0·006	—0·012	+ 0·003
1176*	1402	241	3444	13743	40 Hydræ .....υ^2	4·7	88·78	9	9 59 46·054	+ 2·9237	+ 0·002	—0·0034	— 0·004
1177	...	...	...	...	B.D. — 11° No. 2801 ...	9·6†	87·30	3	10 0 51·610	+ 2·9329	+ 0·001	...	...
1178	1403	245	3453	...	30 Leonis.....η	3·6	89·44	32	10 1 20·131	+ 3·2786	— 0·013	+0·0013	+ 0·001
1179	...	...	...	13794	Lalande 19750.....	6·1	94·21	12	10 1 52·840	+ 2·8760	+ 0·003	...	...
1180	...	246	...	...	Piazzi IX. 246.....	6·5†	89·55	6	10 1 54·675	+ 3·4864	— 0·024	...	...
1181	1406	251	3459	...	32 Leonis.....a	1·4	89·29	7	10 2 30·854	+ 3·2179	— 0·010	—0·0182	— 0·013
1182	...	...	...	...	B.D. — 11° No. 2811 ...	8·2†	87·30	3	10 3 12·660	+ 2·9341	+ 0·001	...	...
1183	4232	...	3480	13840	Chamæleontis .....μ	5·6	86·45	11	10 3 38·184	— 1·3732	— 0·340	...	...
1184	...	...	3471	13842	C.G.A. 13842	5·3	91·23	4	10 4 44·130	+ 2·9323	+ 0·002	...	...
1185	4172	...	3472	13850	Velorum .....Q	5·2	94·22	12	10 4 46·029	+ 2·2691	+ 0·012	...	...
1186	4167	...	...	13847	Lacaille 4167	6·5	88·25	8	10 4 47·462	+ 2·6161	+ 0·010	...	...
1187*	1412	2	3473	13855	41 Hydræ .....λ	3·9	88·89	28	10 5 13·547	+ 2·9383	+ 0·001	—0·0148	— 0·016
1188	4246	...	3493	13899	Lacaille 4246	6·6	86·91	7	10 6 13·005	— 0·9617	— 0·272	...	...
1189	4183	...	...	13894	Lacaille 4183	6·4*	94·21	3	10 7 1·829	+ 2·7352	+ 0·008	...	...
1190	4209	...	...	13921	Lacaille 4209	7·4*	90·98	6	10 7 37·948	+ 1·5677	— 0·002	...	...

1159. B.A.C. gives no letter.

1183. μ^1 Chamæleontis in B.A.C.

1188. μ^2 Chamæleontis in B.A.C.

No.	Mean Date. 1800+	No. of Obs.	Mean Dec. 1890·0.	Sec. of Final Dec.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_δ.	Corr. for μ_δ to 1890·0.	Fallows and Henderson.	Johnson.	Cape Catalogues. 1840.	1850.	1860.	1880.	1885.	Melbourne, 1870 and 1880.
			° ′ ″	″	″	″	″	″								
1156	90·30	10	+ 26 31 29·05	28·46	— 16·746	— 0·27	— 0·045	+0·01	...	...	...	...	...	5332	680	*572*
1157	90·53	43	— 85 30 25·36	25·38	— 16·756	+ 0·51	...	...	...	...	...	...	...	5351	682	...
1158	91·04	5	— 45 59 47·93	48·33	— 16·789	— 0·18	...	...	...	...	...	1788	...	5340	...	...
1159*	89·24	14	— 46 1 55·08	55·31	— 16·791	— 0·18	0·00	0·00	...	...	1224	1789	...	5342	...	...
1160	87·96	13	— 21 58 4·52	4·75	— 16·886	— 0·21	...	...	...	...	...	...	...	...	684	*574*
1161	87·28	3	— 55 52 46·65	46·74	— 16·891	— 0·15	...	...	...	...	...	...	...	...	...	...
1162	94·21	12	— 44 45 50·49	50·57	— 16·911	— 0·18	...	...	...	...	1229	1798	...	5368	...	...
1163	90·53	12	+ 41 34 45·45	44·58	— 16·957	— 0·28	— 0·006	0·00	...	...	...	...	...	...	...	...
1164	88·90	14	— 54 2 39·96	40·16	— 17·052	— 0·16	0·000	0·00	...	232	1233	1803	397	5400	689	496
1165	91·20	4	— 52 6 53·67	54·04	— 17·061	— 0·16	...	...	...	...	1234	1804	...	5405	...	...
1166	88·67	5	— 47 53 22·68	22·81	— 17·074	— 0·17	...	...	...	...	...	1805	...	5407	690	...
1167	88·69	16	— 35 21 52·81	53·02	— 17·105	— 0·19	— 0·021	—0·03	...	...	1236	1808	...	5410	...	*579*
1168	89·78	59	+ 8 34 18·36	18·04	— 17·116	— 0·24	— 0·011	0·00	182	...	1235	1807	398	5411	694	497*
1169	94·21	4	— 62 3 36·81	36·85	— 17·138	— 0·13	...	...	...	...	...	...	...	5416	...	...
1170	87·21	1	— 46 33 57·45	57·53	— 17·139	— 0·17	...	...	...	...	...	...	...	...	...	...
1171	87·29	2	— 56 8 53·37	53·46	— 17·144	— 0·15	...	...	...	...	...	...	...	...	...	...
1172*	87·84	12	— 0 32 4·48	4·77	— 17·243	— 0·22	— 0·130*	—0·28	...	...	...	...	...	...	...	...
1173	87·29	4	— 11 46 16·78	16·98	— 17·246	— 0·21	...	...	...	...	...	...	...	...	...	...
1174	88·86	15	— 32 42 23·25	23·48	— 17·303	— 0·19	...	...	...	...	...	...	...	5447	...	...
1175	90·30	12	— 23 45 11·80	12·20	— 17·334	— 0·20	— 0·01	0·00	...	...	...	...	...	5455	...	...
1176	88·78	9	— 12 31 52·93	53·14	— 17·356	— 0·21	+ 0·038	+0·05	...	...	...	1820	...	5462	700	*583*
1177	87·30	3	— 11 52 41·74	41·95	— 17·404	— 0·21	...	...	...	...	...	...	...	...	...	...
1178	90·88	48	+ 17 17 55·82	55·42	— 17·424	— 0·23	+ 0·002	0·00	...	...	1243	...	400	...	701	...
1179	94·21	12	— 16 36 13·15	13·30	— 17·448	— 0·20	...	...	...	...	...	...	...	...	...	...
1180	89·55	6	+ 32 8 37·86	37·29	— 17·449	— 0·24	...	...	...	...	...	...	...	...	...	...
1181	88·36	11	+ 12 30 17·18	16·80	— 17·475	— 0·22	+ 0·018	+0·03	184*	...	1246	1829	401	5490	703	499*
1182	87·30	3	— 11 58 50·91	51·12	— 17·505	— 0·20	...	...	...	...	...	...	...	...	...	...
1183*	87·14	28	— 81 40 55·53	55·59	— 17·523	+ 0·11	...	...	...	...	1251	1841	403	5501	704	502*
1184	91·23	4	— 12 16 21·36	21·85	— 17·570	— 0·20	...	...	...	...	...	1834	...	5507	...	...
1185	94·22	12	— 51 16 18·31	18·39	— 17·571	— 0·15	...	...	...	...	1249	1835	...	5511	...	...
1186	88·25	8	— 35 19 2·18	2·36	— 17·572	— 0·18	...	...	...	...	1248	...	...	5509	...	...
1187	89·53	30	— 11 48 37·79	38·12	— 17·591	— 0·20	— 0·065	—0·03	...	233	...	1836	...	5515	706	*588*
1188*	86·90	8	— 81 1 47·02	47·10	— 17·632	+ 0·07	...	...	...	...	...	1848	404	5532	...	...
1189	94·21	3	— 28 3 47·81	47·94	— 17·666	— 0·18	...	...	...	...	...	...	...	5535	...	...
1190	90·98	6	— 67 17 57·07	57·34	— 17·691	— 0·10	...	...	...	...	...	...	...	5547	...	...

1172. Proper Motion from Radcliffe 1890.

No.	Bradley or Lacaille.	Piazzi. 1800.	B.A.C. 1850.	C.G.A. 1875.	Star's Name.	Mag.	Mean Date. 1800+	No. of Obs.	Mean R.A. 1890·0.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_α.	Corr. for μ_α to 1890·0.
									h m s	s	s	s	s
1191	4196	18	3494	13935	Lacaille 4196	6·7*	93·21	5	10 8 33·110	+ 2·6747	+ 0·009	— 0·0300*	+ 0·096
1192	4224	...	...	13964	Lacaille 4224	6·7	94·22	3	10 9 46·109	+ 1·9515	+ 0·010	...	...
1193	4342	...	...	14032	Lacaille 4342	7·3	95·50	12	10 9 49·145	— 6·6844	— 2·239	...	...
1194†	4212	29	3509	13968	Velorum.....*q*	4·0	90·06	12	10 10 7·069	+ 2·5254	+ 0·012	— 0·0174	+ 0·001
1195	1421	20	3505	...	33 Ursæ Majoris .....λ	3·6	86·00	1	10 10 27·683	+ 3·6552	— 0·038	— 0·0165	— 0·066
1196	1425	25	3508	...	36 Leonis.....ζ	3·6	90·33	6	10 10 34·343	+ 3·3456	— 0·017	0·0000	0·000
1197†	4243	...	3516	14008	Argûs .....ω	3·6	93·66	11	10 11 7·373	+ 1·4377	— 0·007	— 0·0040	+ 0·015
1198	4229	...	...	14002	Lacaille 4229	6·5	94·26	4	10 11 12·049	+ 2·2181	+ 0·013	...	...
1199	...	...	...	...	W.B. (2) X. 201	6·7†	89·81	6	10 11 58·630	+ 3·3947	— 0·021	...	...
1200	...	...	...	...	B.D. — 11° No. 2844 ...	9·3†	87·28	3	10 12 36·650	+ 2·9429	+ 0·002	...	...
1201	4249	...	3526	14054	Carinæ .....*q*	3·4	89·61	6	10 13 24·498	+ 2·0005	+ 0·012	...	...
1202	1432	38	3523	...	41 Leonis .....*pr.* γ	2·4	88·64	11	10 13 54·508	+ 3·2945	— 0·015	+ 0·0208	+ 0·028
1203	...	41	...	14062	Piazzi X. 41.....	6·6*	94·20	4	10 13 59·990	+ 3·0250	— 0·001	...	...
1204	...	...	...	...	B.D. — 11° No. 2855 ...	9·5†	87·28	4	10 14 42·060	+ 2·9449	+ 0·002	...	...
1205	1434	45	3533	...	34 Ursæ Majoris .....μ	3·1	89·00	2	10 15 46·500	+ 3·6023	— 0·036	— 0·0083	— 0·008
1206†	4260	...	3537	14114	Lacaille 4260	5·6	88·99	11	10 15 47·594	+ 2·4397	+ 0·014	— 0·001	— 0·001
1207	...	...	3553	14165	Lalande 20156.....	6·8*	94·20	4	10 17 58·310	+ 3·0414	— 0·002	...	...
1208†	4278	66	3557	14191	Lacaille 4278	5·5	88·69	12	10 18 40·320	+ 2·6344	+ 0·012	— 0·0150	— 0·020
1209	...	...	...	...	Lalande 20169.....	6·8†	87·98	3	10 19 7·818	+ 3·4980	— 0·029	...	...
1210	4291	...	...	14218	Lacaille 4291	7*	94·21	4	10 19 49·329	+ 2·1877	+ 0·015	...	...
1211	...	...	...	...	B.D. — 12° No. 3161 ...	7·5†	87·29	4	10 20 3·450	+ 2·9504	+ 0·002	...	...
1212	1447	71	3563	14225	Bradley 1447	6·0	88·68	11	10 20 14·399	+ 3·0082	0·000	— 0·0114	— 0·015
1213*	1451	74	3568	14236	42 Hydræ .....μ	4·1	88·97	29	10 20 46·233	+ 2·9087	+ 0·004	— 0·0098	— 0·010
1214	1450	73	3570	14241	26 Sextantis	6·8*	94·25	4	10 20 59·910	+ 3·0683	— 0·003	— 0·0034	+ 0·014
1215	1452	75	3573	14245	27 Sextantis	6·5	94·24	4	10 21 13·410	+ 3·0351	— 0·001	— 0·0077	+ 0·033
1216	1448	72	3572	...	31 Leonis Minoris	4·4	88·33	3	10 21 31·333	+ 3·4963	— 0·030	— 0·0112	— 0·019
1217†	4298	82	3578	14266	Antliæ .....*a*	4·2	91·20	10	10 22 7·082	+ 2·7462	+ 0·010	— 0·0079	+ 0·009
1218†	4319	...	3585	14276	Carinæ I	4·0	90·89	11	10 22 12·612	+ 1·2082	— 0·022	— 0·0092	+ 0·008
1219	...	...	...	14299	Brisbane 3026	8*	91·46	6	10 23 23·337	+ 2·0669	+ 0·015	...	...
1220	...	...	...	14444	C.G.A. 14444	7·5	95·46	13	10 23 28·682	—26·919	—27·682	...	...
1221	1455	84	3584	...	32 Leonis Minoris	5·8	87·82	4	10 23 41·131	+ 3·5219	— 0·032	— 0·0022	— 0·005
1222†	4314	...	3594	14304	Carinæ .....*s*	4·1	91·78	12	10 23 50·433	+ 2·1949	+ 0·016	— 0·0015	+ 0·003
1223	4321	...	3599	14310	Lacaille 4321	6·1	94·25	4	10 23 57·099	+ 1·8982	+ 0·012	...	...
1224	4306	90	3596	14314	Lacaille 4306	5·9	91·31	4	10 24 24·030	+ 2·7711	+ 0·009	...	...
1225	4320	...	3601	14325	Lacaille 4320	7¼*	94·20	3	10 24 39·609	+ 2·2510	+ 0·017	...	...

1216. β Leonis Minoris in B.A.C.

No.	Mean Date. 1800+	No. of Obs.	Mean Dec. 1890·0.	Sec. of Final Dec.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_δ.	Corr. for μ_δ to 1890·0.	Fallows and Henderson.	Johnson.	Cape Catalogues. 1840.	1850.	1860.	1880.	1885.	Melbourne, 1870 and 1880.
			° ′ ″	″	″	″	″	″								
1191*	92·21	5	— 32 29 20·91	21·08	— 17·728	— 0·17	+ 0·030*	—0·07	...	...	1254	1847	...	5559	...	...
1192	94·22	3	— 61 6 49·02	49·07	— 17·778	— 0·12	...	...	...	...	...	...	...	5576	...	...
1193	95·50	12	— 86 22 35·16	35·22	— 17·779	+ 0·46	...	...	...	...	1277	...	...	5595	...	511*
1194	89·84	13	— 41 34 37·61	37·85	— 17·792	— 0·16	+ 0·060	+0·01	...	234	1258	1855	406	5578	...	507
1195	92·73	11	+ 43 27 49·45	48·69	— 17·806	— 0·24	— 0·058	+0·16	...	...	1256	...	...	...	...	591
1196	89·71	7	+ 23 57 55·46	55·01	— 17·810	— 0·22	+ 0·017	0·00	...	...	...	...	...	...	712	...
1197	93·71	12	— 69 29 30·13	30·19	— 17·832	— 0·09	+ 0·007	—0·03	...	235	1261	1859	407	5593	715	508
1198	94·26	4	— 54 25 37·27	37·36	— 17·836	— 0·14	...	...	...	...	...	...	...	5592	...	...
1199	89·81	6	+ 27 57 52·12	51·53	— 17·867	— 0·22	...	...	...	...	...	...	...	...	...	...
1200	87·28	4	— 12 7 12·85	13·05	— 17·892	— 0·19	...	...	...	...	...	...	...	...	...	...
1201	89·61	6	— 60 46 58·43	58·67	— 17·923	— 0·12	...	...	...	236	1268	1864	409	5617	717	512
1202†	88·80	10	+ 20 23 52·43	52·01	— 17·943	— 0·21	— 0·136	—0·16	...	...	1263	1863	408	5620	719	513*
1203	94·20	4	— 4 33 10·13	10·30	— 17·946	— 0·19	...	...	...	...	...	...	...	5623	...	...
1204	87·28	4	— 12 8 43·62	43·82	— 17·973	— 0·18	...	...	...	...	...	...	...	...	...	...
1205	90·71	14	+ 42 3 10·06	9·18	— 18·015	— 0·22	+ 0·034	—0·02	...	...	1272	...	...	...	721	597
1206	88·99	11	— 47 8 46·46	46·66	— 18·016	— 0·15	— 0·02	—0·02	...	...	...	1869	...	5640	...	...
1207	94·20	4	— 3 5 13·07	13·26	— 18·098	— 0·18	...	...	...	...	...	1878	...	5667	...	...
1208	88·69	12	— 37 27 6·28	6·54	— 18·125	— 0·16	— 0·054	—0·07	...	...	1279	1881	...	5676	...	601
1209	88·78	6	+ 36 45 47·98	47·33	— 18·142	— 0·21	...	...	...	...	...	...	...	...	...	...
1210	94·21	4	— 57 23 47·37	47·42	— 18·167	— 0·13	...	...	...	...	...	...	...	5686	...	...
1211	87·29	4	— 12 12 15·81	16·01	— 18·176	— 0·18	...	...	...	...	...	...	...	...	725	...
1212	88·39	14	— 6 30 19·43	19·63	— 18·183	— 0·18	+ 0·139	+0·22	...	...	...	1883	...	5689	...	...
1213	89·46	35	— 16 16 29·54	29·82	— 18·202	— 0·17	— 0·061	—0·03	...	239	1283	1886	415	5697	727	602
1214	94·25	4	— 0 25 44·18	44·39	— 18·211	— 0·18	+ 0·017	—0·07	...	...	...	1888	...	5698	...	...
1215	94·24	4	— 3 49 43·37	43·57	— 18·219	— 0·18	+ 0·018	—0·08	...	...	...	1889	...	5700	...	...
1216*	90·33	12	+ 37 16 14·63	13·88	— 18·230	— 0·21	— 0·077	+0·02	...	...	...	...	...	...	729	...
1217	91·20	10	— 30 30 28·51	28·77	— 18·252	— 0·16	+ 0·010	—0·01	...	240	1284	1892	417	5714	731	521*
1218	90·89	11	— 73 28 18·61	18·76	— 18·255	— 0·07	— 0·022	+0·02	...	241	1286	1895	419	5717	732	522
1219	91·46	6	— 61 27 19·29	19·54	— 18·297	— 0·12	...	...	...	...	...	...	...	5725	...	...
1220	95·48	14	— 88 57 21·58	21·64	— 18·299	+ 1·61	...	...	...	...	...	...	...	5777	...	...
1221	87·82	4	+ 39 29 17·91	17·35	— 18·308	— 0·20	+ 0·015	+0·03	...	...	...	...	...	...	...	...
1222	91·78	12	— 58 10 40·16	40·46	— 18·314	— 0·12	+ 0·001	0·00	...	...	1288	1900	421	5729	...	...
1223	94·25	4	— 65 8 37·83	37·88	— 18·318	— 0·11	...	...	...	...	1291	1904	...	5734	...	524
1224	91·31	4	— 29 6 5·60	6·03	— 18·334	— 0·16	...	...	...	...	1289	1902	...	5736	...	...
1225	94·20	3	— 56 40 15·80	15·84	— 18·343	— 0·12	...	...	...	...	...	1905	...	5743	...	...

1191. Proper Motion from Radcliffe 1890.

1202. Binary.

No.	Bradley or Lacaille.	Piazzi. 1800.	B.A.C. 1850.	C.G.A. 1875.	Star's Name.	Mag.	Mean Date. 1800+	No. of Obs.	Mean R.A. 1890·0.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_a.	Corr. for μ_a to 1890·0.
									h m s	s	s	s	s
1226	1467	102	3609	...	47 Leonis.....ρ	4·0	89·92	38	10 27 1·133	+ 3·1643	— 0·008	— 0·0012	0·000
1227	4336	...	3614	14369	Lacaille 4336	5·1	87·77	6	10 27 5·487	+ 2·3688	+ 0·017	...	...
1228	4351	...	...	14386	Lacaille 4351	8*	90·06	12	10 27 45·690	+ 1·8308	+ 0·010	...	...
1229	4339	...	...	14384	Lacaille 4339	6·4*	91·30	4	10 27 50·510	+ 2·5663	+ 0·015	...	...
1230†	4348	...	3619	14392	Carinæ .....p	3·6	91·61	12	10 28 6·757	+ 2·1266	+ 0·017	— 0·0040	+ 0·006
1231*	1471	111	3620	14403	44 Hydræ	5·4	88·97	3	10 28 46·997	+ 2·8506	+ 0·007	— 0·0021	— 0·002
1232	1472	...	3627	14426	Bradley 1472	6·0	91·25	4	10 29 43·590	+ 2·8589	+ 0·007	— 0·0106	+ 0·013
1233	...	...	...	14481	C.G.A. 14481	7·8	95·49	12	10 29 50·480	— 4·2492	— 1·485	...	...
1234	...	...	...	14463	W.B. X. 520.....	6·2*	89·80	6	10 31 3·773	+ 2·9683	+ 0·003	+ 0·0153	+ 0·003
1235	...	...	...	...	Lalande 20522.....	7·3†	90·00	7	10 31 11·243	+ 3·1932	— 0·010	...	...
1236	4373	...	3635	14478	Carinæ .....r	4·6	90·76	6	10 31 21·662	+ 2·2964	+ 0·018	...	...
1237	...	...	3637	...	Hydræ .....U	Var.	87·30	6	10 32 7·380	+ 2·9588	+ 0·003	...	...
1238	4430	...	3653	14523	Lacaille 4430	7·0	91·18	8	10 32 28·043	— 0·2041	— 0·208	...	...
1239†	4378	...	3644	14517	Velorum.....p	4·0	89·25	13	10 32 40·702	+ 2·5271	+ 0·017	— 0·0174	— 0·013
1240	1477	122	3641	...	38 Leonis Minoris	5·8	88·90	5	10 32 50·214	+ 3·4671	— 0·030	— 0·0220	— 0·024
1241	4411	...	3654	14535	Lacaille 4411	6·8*	94·22	4	10 33 22·762	+ 1·1317	— 0·031	...	...
1242	...	...	...	...	Gilliss P.Z. 7266.....	8·7‡	91·49	2	10 33 52·065	— 6·8440	— 3·061	...	...
1243†	4428	...	3660	14557	Chamæleontis .....γ	4·1	92·66	19	10 34 9·871	+ 0·7643	— 0·068	— 0·0173	+ 0·046
1244†	4398	...	3658	14569	Velorum.....x	4·4	91·17	9	10 34 55·672	+ 2·3792	+ 0·020	— 0·0067	+ 0·008
1245*	1482	134	3663	14589	33 Sextantis	6·2	88·42	12	10 35 48·469	+ 3·0627	— 0·002	— 0·0120	— 0·019
1246	...	...	3669	14612	Brisbane 3154	7·6*	94·25	4	10 36 35·668	+ 2·3296	+ 0·020	...	...
1247	4510	...	...	14661	Lacaille 4510	6·9*	93·27	37	10 37 25·099	— 2·9441	— 1·040	— 0·008†	+ 0·026
1248	1485	139	3671	...	41 Leonis Minoris	5·1	90·15	12	10 37 26·110	+ 3·2800	— 0·016	— 0·0105	+ 0·002
1249	4433	...	...	14650	Lacaille 4433	7·5*	88·64	6	10 38 19·766	+ 2·3732	+ 0·021	...	...
1250†	4447	...	3686	14667	Argûs .....θ	3·0	92·12	11	10 39 2·013	+ 2·1319	+ 0·020	— 0·0052	+ 0·011
1251	4446	...	3688	14673	Carinæ .....w	4·4	93·39	7	10 39 20·949	+ 2·2746	+ 0·021	...	...
1252	1490	145	3685	...	42 Leonis Minoris	5·4	92·18	11	10 39 44·908	+ 3·3509	— 0·023	— 0·0036	+ 0·008
1253	4466	...	...	14709	Lacaille 4466	6·9	94·29	6	10 40 5·311	+ 1·3812	— 0·012	...	...
1254	1493	150	3690	...	37 Sextantis	6·2	90·33	6	10 40 22·075	+ 3·1280	— 0·006	— 0·0029	+ 0·001
1255	4457	...	3695	14720	Argûs .....η	Var.	90·67	12	10 40 47·610	+ 2·3156	+ 0·022	— 0·0015	+ 0·001
1256	4453	...	...	14724	Lacaille 4453	7½*	87·80	6	10 40 55·184	+ 2·5896	+ 0·019	...	...
1257†	4461	...	3702	14751	Argûs .....μ	2·8	90·54	12	10 42 2·293	+ 2·5623	+ 0·020	+ 0·0052	— 0·003
1258	1500	162	3708	...	53 Leonis.....l	5·3	90·23	31	10 43 28·539	+ 3·1587	— 0·008	— 0·0015	0·000
1259	4477	...	...	14796	Lacaille 4477	7¾*	89·82	6	10 43 50·465	+ 2·5920	+ 0·020	...	...
1260*	1504	167	3715	14802	Hydræ .....ν	3·3	89·00	6	10 44 11·760	+ 2·9511	+ 0·005	+ 0·0049	+ 0·005

1227. Y Velorum in B.A.C.
1248. B.A.C. assigns to Leo.
1231. Fundamental star for Southern Zones.
1251. B.A.C. gives no letter.
1244. X Velorum in B.A.C.

No.	Mean Date. 1800+	No. of Obs.	Mean Dec. 1890·0.	Sec. of Final Dec.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_δ.	Corr. for μ_δ to 1890·0.	Fallows and Henderson	Johnson.	Cape Catalogues. 1840.	1850.	1860.	1880.	1885.	Melbourne, 1870 and 1880.
			° ′ ″	″	″	″	″	″								
1226	90·43	46	+ 9 52 21·06	20·76	— 18·425	— 0·17	+ 0·011	0·00	...	...	1294	1909	422	5763	739	525*
1227*	87·77	6	— 53 9 24·60	24·79	— 18·428	— 0·13	...	...	...	...	1297	1911	...	5767	...	...
1228	90·06	12	— 67 8 13·40	13·60	— 18·451	— 0·10	...	...	...	...	...	...	...	5776	740	...
1229	91·30	4	— 44 3 5·95	6·33	— 18·453	— 0·14	...	...	...	...	...	...	...	5775	...	...
1230	91·61	12	— 61 7 10·32	10·52	— 18·463	— 0·11	+ 0·002	0·00	...	242	1303	1917	423	5778	...	527*
1231*	88·55	4	— 23 10 42·60	42·78	— 18·486	— 0·15	+ 0·031	+0·04	...	...	1304	1918	...	5786	741	*611*
1232	91·25	4	— 22 36 32·63	33·09	— 18·517	— 0·15	+ 0·012	—0·02	...	...	...	1921	...	5796	...	...
1233	95·49	12	— 85 59 47·45	47·50	— 18·521	+ 0·25	...	...	...	...	1327	...	...	5810	...	...
1234*	89·80	6	— 11 38 23·24	23·60	— 18·562	— 0·16	— 0·582	—0·12	...	...	...	...	...	...	745	...
1235	90·00	7	+ 13 26 13·19	12·70	— 18·566	— 0·17	...	...	...	...	...	...	...	...	...	...
1236	90·76	6	— 56 59 17·05	17·36	— 18·572	— 0·12	...	...	...	...	1309	1925	...	5816	746	...
1237*	87·30	6	— 12 48 44·80	45·00	— 18·597	— 0·15	...	...	...	...	...	...	...	5827	...	...
1238	91·82	9	— 81 21 11·21	11·35	— 18·608	+ 0·02	...	...	...	...	...	1934	...	5841	...	...
1239	89·25	13	— 47 39 15·80	16·04	— 18·615	— 0·13	— 0·022	—0·02	...	243	1313	1930	424	5839	...	530
1240	89·57	7	+ 38 28 59·81	59·16	— 18·620	— 0·18	— 0·018	—0·01	...	...	...	...	...	...	...	...
1241	94·22	4	— 75 44 19·90	19·89	— 18·638	— 0·05	...	...	...	...	1319	1935	...	5849	...	531
1242*	91·49	2	— 87 10 2·04	2·07	— 18·653	+ 0·37	...	...	...	...	...	...	...	...	...	...
1243	92·37	19	— 78 2 14·43	14·54	— 18·663	— 0·03	+ 0·032	—0·08	...	245	1328	1940	427	5859	...	533
1244*	91·17	9	— 55 1 50·08	50·24	— 18·687	— 0·12	— 0·001	0·00	...	...	1325	1938	...	5867	...	...
1245	89·15	13	— 1 9 48·75	49·03	— 18·715	— 0·15	— 0·104	—0·09	...	...	...	1941	...	5879	749	*620*
1246	94·25	4	— 57 21 40·09	40·16	— 18·740	— 0·11	...	...	...	...	...	1943	...	5889	...	...
1247*	91·10	117	— 85 31 13·34	13·42	— 18·765	+ 0·16	— 0·018†	+0·02	...	...	1345	...	...	5911	754	*625*
1248*	90·15	12	+ 23 45 50·64	50·10	— 18·766	— 0·16	+ 0·026	0·00	...	...	...	...	...	...	753	...
1249	88·64	6	— 56 18 5·38	5·63	— 18·793	— 0·11	...	...	...	...	...	...	...	5913	...	...
1250	92·12	11	— 63 49 5·27	5·39	— 18·814	— 0·10	+ 0·001	0·00	192*	247	1338	1952	429	5920	757	538
1251*	93·39	7	— 59 59 23·11	23·23	— 18·824	— 0·11	...	...	...	...	1340	1953	...	5921	...	...
1252	92·33	12	+ 31 15 41·43	40·88	— 18·836	— 0·16	— 0·017	+0·04	...	...	...	...	...	...	759	...
1253	94·29	6	— 74 53 12·57	12·58	— 18·846	— 0·06	...	...	...	...	...	...	...	5935	760	...
1254	90·33	6	+ 6 57 9·79	9·46	— 18·855	— 0·15	— 0·028	+0·01	193	...	...	...	430	...	...	...
1255*	90·67	12	— 59 6 22·30	22·60	— 18·867	— 0·11	+ 0·018	—0·01	194*	248	1343	1957	431	5938	761	539*
1256	87·80	6	— 46 52 52·72	52·83	— 18·871	— 0·12	...	...	...	...	...	...	...	5941	...	...
1257†	90·54	12	— 48 50 20·51	20·84	— 18·904	— 0·12	— 0·053	+0·03	195*	249	...	1964	433	5957	763	540
1258	90·54	37	+ 11 7 37·75	37·41	— 18·945	— 0·14	— 0·020	+0·01	...	...	1349	...	434	5974	766	541*
1259	89·82	6	— 47 46 13·81	14·00	— 18·956	— 0·12	...	...	...	...	...	...	...	5982	...	...
1260	89·00	6	— 15 37 5·55	5·78	— 18·966	— 0·13	+ 0·215	+0·22	...	250	1350	1972	...	5986	767	*629*

1234. Proper Motion from *Bonn Observations*, Vol. VII.
1237. Limits of magnitude 4·5 and 6·1–6·3. Irregularly periodic.
1242. Magnitude from Cape observations. Observed only *S.P.*
1247. Proper Motion determined for this Catalogue.
1255. Limits of magnitude > 1–7·4. Period irregular.
1257. $2^m·8$. $7^m·2$ $2\frac{1}{2}'$ 55°. Fainter star probably not seen.

No.	Bradley or Lacaille.	Piazzi. 1800.	B.A.C. 1850.	C.G.A. 1875.	Star's Name.	Mag.	Mean Date. 1800+	No. of Obs.	Mean R.A. 1890·0.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_a.	Corr. for μ_a to 1890·0.
									h m s	s	s	s	s
1261	...	...	...	...	Lalande 20852.....	6·8†	90·44	6	10 44 38·960	+ 3·2646	— 0·016	...	...
1262†	4513	...	3724	14829	Chamælcontis .....δ^2	4·6	89·50	9	10 44 44·720	+ 0·6373	— 0·094	— 0·0199	— 0·010
1263*	1505	169	3718	14816	41 Sextantis.....	5·8	89·35	1	10 44 46·990	+ 3·0095	+ 0·002	— 0·0011	— 0·001
1264	1507	176	3722	14836	Bradley 1507	6·8*	87·60	7	10 45 43·037	+ 2·9362	+ 0·006	— 0·0040	— 0·010
1265	4578	...	...	14883	Lacaille 4578	7·6	92·80	17	10 46 30·674	— 3·4788	— 1·438	...	...
1266	1509	181	3728	...	46 Leonis Minoris	3·9	90·69	12	10 47 9·564	+ 3·3629	— 0·026	+ 0·0053	— 0·004
1267	...	...	3739	14902	Brisbane 3272.....	6·9*	90·72	5	10 48 54·516	+ 2·4116	+ 0·025	...	...
1268†	4515	...	3740	14910	Carinæ .....u	3·9	90·84	13	10 49 1·509	+ 2·4136	+ 0·025	+ 0·0068	— 0·006
1269	...	...	...	14929	Lalande 21011.....	6·9*	88·15	14	10 49 49·487	+ 2·9252	+ 0·008	...	...
1270	...	191	3744	...	Piazzi X. 191	6·3†	87·36	2	10 49 57·582	+ 3·4421	— 0·034	...	...
1271	4518	...	...	14935	Lacaille 4518	6·4*	87·91	13	10 50 1·701	+ 2·7149	+ 0·018	...	...
1272†	4527	199	3755	14963	Antliæ .....t	4·6	89·57	11	10 51 35·435	+ 2·7811	+ 0·015	+ 0·0050	+ 0·002
1273	4533	...	...	14982	Lacaille 4533	6·2	94·25	6	10 52 20·258	+ 2·6060	+ 0·022	...	...
1274	...	...	...	...	Lalande 21084.....	7·0†	90·63	6	10 53 16·973	+ 3·2002	— 0·012	...	...
1275	4542	...	...	15004	Lacaille 4542	Var.	91·28	5	10 53 19·210	+ 2·4306	+ 0·026	...	...
1276	4548	...	3762	15012	Lacaille 4548	7*	91·00	6	10 53 27·675	+ 2·1035	+ 0·026	...	...
1277	4564	...	...	15028	Lacaille 4564	6·6*	88·34	6	10 54 7·830	+ 1·7050	+ 0·010	...	...
1278	1525	209	3766	15027	7 Crateris .....a	4·1	88·07	12	10 54 24·930	+ 2·9520	+ 0·007	— 0·0343	— 0·066
1279	1526	210	3768	...	58 Leonis.....d	5·0	88·38	8	10 54 52·778	+ 3·1001	— 0·004	— 0·0018	— 0·003
1280†	4550	215	3772	15048	Velorum i	4·6	90·16	12	10 55 6·437	+ 2·7404	+ 0·018	+ 0·0023	0·000
1281	1529	219	3776	...	60 Leonis.....b	4·5	90·23	12	10 56 27·445	+ 3·2113	— 0·014	— 0·0029	+ 0·001
1282	1531*	222	3778	15090	Bradley 1531	6·0	88·14	14	10 57 4·884	+ 2·8939	+ 0·011	+ 0·0026	+ 0·005
1283	1533	227	3782	...	62 Leonis .....p^2	6·2	90·89	5	10 57 58·790	+ 3·0762	— 0·002	— 0·0071	+ 0·006
1284	4575	...	...	15145	Lacaille 4575	8½*	92·80	6	10 59 6·164	+ 2·8162	+ 0·016	...	...
1285	1535	236	3788	...	63 Leonis.....χ	4·7	89·96	25	10 59 20·571	+ 3·1212	— 0·006	— 0·0255	— 0·001
1286†	1536*	237	3793	15166	Hydræ 26 H .....χ	5·2	93·18	8	11 0 1·890	+ 2·8986	+ 0·012	— 0·0174	+ 0·055
1287	4643	...	3803	15189	Octantis.....η	6·2	94·22	31	11 0 3·611	— 0·2172	— 0·314	— 0·055†	+ 0·232
1288	...	...	...	...	Lalande 21271.....	6·5†	90·13	6	11 0 54·190	+ 3·1855	— 0·012	...	...
1289	1539	243	3798	...	65 Leonis.....$pr.\ p^4$	5·7	91·08	8	11 1 17·506	+ 3·0876	— 0·003	— 0·0287	+ 0·031
1290	1540	245	3801	...	64 Leonis	6·5†	90·61	7	11 1 46·489	+ 3·2215	— 0·015	— 0·0024	+ 0·001
1291	4603	248	3804	15224	Lacaille 4603	5·4	87·82	8	11 2 11·514	+ 2·7716	+ 0·020	...	...
1292	4610	...	3810	15233	Lacaille 4610	6·7*	94·25	4	11 2 35·428	+ 2·7038	+ 0·023	...	...
1293†	4625	...	3814	15243	Lacaille 4625	5·9	93·14	10	11 2 51·754	+ 2·1522	+ 0·032	— 0·01	+ 0·031
1294	1542	253	3812	...	52 Ursæ Majoris .....ψ	3·1	87·67	3	11 3 28·731	+ 3·3999	— 0·037	— 0·0070	— 0·016
1295	...	254	3813	...	Piazzi X. 254	6·5†	...	...	11 3 29	+ 3·3855	— 0·034	...	...

1264. b^2 Hydræ in B.A.C. and C.G.A.
1272, 1280. B.A.C. gives no letter.
1283. p^2 Leonis in B.A.C.
1286. χ^1 Hydræ in B.A.C. and C.G.A.
1289. p^3 Leonis in B.A.C.

No.	Mean Date. 1800+	No. of Obs.	Mean Dec. 1890·0.	Sec. of Final Dec.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_δ.	Corr. for μ_δ to 1890·0.	Fallows and Henderson.	Johnson.	Cape Catalogues. 1840.	1850.	1860.	1880.	1885.	Melbourne, 1870 and 1880.
			° ′ ″	″	″	″	″	″								
1261	90·44	6	+ 23 59 16·52	15·89	— 18·979	— 0·15	...	...	...	...	...	...	...	...	...	...
1262	88·78	18	— 79 57 35·94	36·00	— 18·982	— 0·02	0·000	0·00	...	251	1355	1979	436	5994	771	543*
1263	89·35	1	— 8 18 54·68	54·85	— 18·983	— 0·13	— 0·008	—0·01	...	...	...	1974	...	5992	770	631
1264*	87·60	7	— 17 44 58·21	58·44	— 19·009	— 0·13	+ 0·048	+0·12	...	...	...	1977	...	...	...	...
1265	90·08	34	— 86 19 12·36	12·42	— 19·031	+ 0·17	...	...	...	...	...	...	...	6011	773	...
1266	90·69	12	+ 34 48 28·23	27·49	— 19·049	— 0·15	— 0·246	+0·17	...	...	...	...	...	...	774	...
1267	90·72	5	— 58 18 30·27	30·54	— 19·096	— 0·10	...	...	...	...	1359	1985	...	6030	...	...
1268	90·80	12	— 58 16 8·46	8·68	— 19·099	— 0·10	+ 0·029	—0·02	...	252	1360	1986	437	6034	...	544
1269	88·15	14	— 20 4 44·17	44·41	— 19·120	— 0·12	...	...	...	...	...	...	...	...	...	...
1270	89·99	6	+ 42 35 52·20	51·34	— 19·124	— 0·14	...	...	...	...	...	...	...	...	...	...
1271	87·83	15	— 41 39 53·27	53·43	— 19·126	— 0·11	...	...	...	...	...	...	...	6039	...	...
1272*	89·38	12	— 36 32 47·43	47·69	— 19·166	— 0·11	— 0·121	—0·08	...	...	1364	1992	438	6052	...	639
1273	94·25	6	— 50 10 38·82	38·91	— 19·185	— 0·10	...	...	...	...	...	...	...	6058	...	...
1274	90·63	6	+ 18 24 59·62	59·13	— 19·209	— 0·13	...	...	...	...	...	...	...	...	...	...
1275*	91·28	5	— 59 8 36·90	37·28	— 19·210	— 0·09	...	...	...	...	...	...	...	6063	...	...
1276	91·00	6	— 68 26 58·51	58·77	— 19·214	— 0·08	...	...	...	...	...	...	...	6067	...	...
1277	88·34	6	— 74 30 40·54	40·50	— 19·230	— 0·06	...	...	...	...	1370	...	...	6071	779	...
1278	88·07	12	— 17 42 47·32	47·67	— 19·237	— 0·11	+ 0·157	+0·30	196	253	1368	1995	...	6072	780	...
1279	87·67	12	+ 4 12 28·89	28·51	— 19·249	— 0·12	— 0·012	—0·03	...	...	...	1996	439	6077	781	640
1280*	90·16	12	— 41 38 9·60	9·87	— 19·254	— 0·10	— 0·016	0·00	...	...	1371	1999	...	6081	...	641
1281	90·23	12	+ 20 46 11·54	11·05	— 19·287	— 0·12	+ 0·047	—0·01	...	...	...	...	...	...	...	...
1282	88·09	15	— 26 14 10·04	10·22	— 19·302	— 0·11	— 0·119	—0·23	...	...	1375	2002	...	6098	...	...
1283*	90·29	6	+ 0 35 28·58	28·17	— 19·323	— 0·11	+ 0·017	—0·01	...	...	...	...	...	...	...	...
1284	92·80	6	— 36 7 44·58	44·82	— 19·349	— 0·10	...	...	...	...	...	...	...	6125	...	...
1285	90·38	34	+ 7 55 50·06	49·71	— 19·355	— 0·11	— 0·022	+0·01	199	...	1378	2005	442	6126	784	551*
1286*	93·18	8	— 26 41 59·60	59·83	— 19·370	— 0·10	+ 0·004	—0·01	...	254	1381	2009	443	6139	...	...
1287*	91·77	98	— 84 0 7·49	7·60	— 19·371	+ 0·02	0·000†	0·00	...	...	1387	2015	445	6146	785	552*
1288	90·13	6	+ 18 19 56·76	56·25	— 19·390	— 0·11	...	...	...	...	...	...	...	...	...	...
1289†	91·08	8	+ 2 33 8·81	8·36	— 19·399	— 0·11	— 0·060	+0·06	200	...	...	...	...	...	...	...
1290	90·50	6	+ 23 55 5·84	5·28	— 19·409	— 0·11	+ 0·016	—0·01	...	...	...	...	...	...	...	...
1291†	87·82	8	— 42 2 42·37	42·51	— 19·418	— 0·09	...	...	...	...	1384	2016	...	6169	788	647
1292	94·25	4	— 48 2 43·94	44·03	— 19·427	— 0·09	...	...	...	...	...	2020	...	6170	...	...
1293	93·14	10	— 70 16 58·45	58·58	— 19·433	— 0·07	0·0	0·00	...	...	1390	...	...	6177	...	...
1294	91·17	12	+ 45 5 44·28	43·39	— 19·446	— 0·11	— 0·036	+0·04	...	...	...	...	...	...	790	648
1295	93·69	5	+ 43 48 14·73	13·97	— 19·446	— 0·11	...	...	...	...	...	...	...	...	...	...

1275. U Carinæ. Limits of magnitude, 6·7–8·5. Period $38^d·6$.
1289. $5^m·7$, $10^m·6$ 1″·8 89°. Fainter star not seen.
1287. Proper Motion determined for this Catalogue.
1291. $5^m·4$, $8^m·9$ 2′ 277°. Fainter star probably not seen.

No.	Bradley or Lacaille.	Piazzi. 1800.	B.A.C. 1850.	C.G.A. 1875.	Star's Name.	Mag.	Mean Date. 1800+	No. of Obs.	Mean R.A. 1890·0.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_a.	Corr. for μ_a to 1890·0.
									h m s	s		s	s
1296†	4627	...	3818	15266	Carinæ x	4·0	91·31	11	11 3 53·470	+ 2·5461	+ 0·030	—0·004	+ 0·005
1297*	1545	6	3826	15317	11 Crateris .....β	4·4	88·17	12	11 6 14·838	+ 2·9456	+ 0·010	—0·0016	— 0·003
1298	4642	...	...	15330	Lacaille 4642	6·7*	89·95	6	11 6 56·692	+ 2·8821	+ 0·015	...	...
1299	...	...	...	15339	Lalande 21449.....	6·7*	89·44	6	11 7 9·227	+ 2·9543	+ 0·009	...	...
1300	4708	...	...	15370	Lacaille 4708	7·2	95·53	12	11 7 40·777	— 0·4951	— 0·453	...	...
1301†	4657	...	3839	15365	Lacaille 4657	5·5	91·98	12	11 8 12·187	+ 2·4696	+ 0·035	—0·01	+ 0·020
1302	1546	10	3834	...	68 Leonis.....δ	2·8	90·33	9	11 8 15·447	+ 3·1882	— 0·013	+0·0102	— 0·003
1303	1548	13	3838	...	70 Leonis.....θ	3·5	88·96	23	11 8 28·053	+ 3·1582	— 0·010	—0·0059	— 0·006
1304	4731	...	...	15440	Lacaille 4731	6·7	95·54	12	11 10 36·414	— 0·6713	— 0·549	...	...
1305	4676	...	...	15424	Lacaille 4676	7¾*	88·79	6	11 10 53·911	+ 2·7709	+ 0·024	...	...
1306	1553	28	3851	...	53 Ursæ Maj. (as one mass)ξ	3·8	88·90	10	11 12 18·909	+ 3·2461	— 0·021	—0·0367	— 0·040
1307	1554	29	3852	...	54 Ursæ Majoris .....ν	3·8	92·75	12	11 12 32·188	+ 3·2558	— 0·023	+0·0002	— 0·001
1308	...	30	...	...	Piazzi XI. 30	7·0†	89·34	2	11 12 50·050	+ 3·2717	— 0·025	...	...
1309	1555	33	3856	...	55 Ursæ Majoris	4·8	88·82	4	11 13 8·150	+ 3·2907	— 0·028	—0·0058	— 0·007
1310	1556	36	3857	...	76 Leonis	6·5†	89·12	6	11 13 16·295	+ 3·0832	— 0·002	—0·0051	— 0·004
1311*	1557	38	3859	15488	12 Crateris .....δ	3·9	89·05	21	11 13 50·477	+ 3·0049	+ 0·006	—0·0106	— 0·010
1312	4729	...	3865	15525	Lacaille 4729	6·3	92·38	11	11 15 20·875	+ 1·7326	+ 0·019	...	...
1313	1558	42	3862	...	77 Leonis.....σ	4·1	91·24	25	11 15 27·862	+ 3·1025	— 0·004	—0·0071	+ 0·009
1314	4724	...	3867	15532	Lacaille 4724	6·6*	88·34	6	11 15 38·819	+ 2·1429	+ 0·042	—0·011*	— 0·018
1315†	4717	...	3866	15539	Centauri .....π	4·4	90·71	12	11 15 59·462	+ 2·7229	+ 0·031	—0·0054	+ 0·004
1316	...	...	...	...	Lalande 21683.....	6·8†	89·69	3	11 17 56·687	+ 3·2620	— 0·026	...	...
1317	4734	...	3878	15576	Lacaille 4734	6·6*	90·50	6	11 18 8·359	+ 2·7101	+ 0·033	...	...
1318	1560	54	3877	...	78 Leonis .....ι	*	89·65	12	11 18 11·410	+ 3·1202	— 0·006	+0·0085	+ 0·003
1319	...	...	....	15602	Lalande 21727.....	6·8*	88·94	11	11 19 21·427	+ 3·0659	+ 0·001	...	...
1320*	1564	62	3883	15603	15 Crateris ..... *pr.* γ	4·2	87·60	3	11 19 23·237	+ 3·0001	+ 0·008	—0·0092	— 0·022
1321†	4739	68	3890	15619	Lacaille 4739	5·4	91·09	12	11 20 9·438	+ 2·9078	+ 0·019	—0·0111	+ 0·012
1322	1568	70	3894	...	83 Leonis	7·5†	90·12	8	11 21 11·286	+ 3·0867	— 0·002	—0·0514	+ 0·006
1323	...	71	...	...	Piazzi XI. 71	8·0†	90·44	1	11 21 12·320	+ 3·0867	— 0·002	—0·0514	+ 0·023
1324*	1569	72	3897	15649	16 Crateris .....κ	5·8	88·13	5	11 21 37·080	+ 3·0261	+ 0·006	—0·0091	— 0·017
1325	1570	76	3900	...	84 Leonis.....τ	5·0†	89·27	11	11 22 16·835	+ 3·0859	— 0·002	—0·0010	— 0·001
1326	...	...	...	...	Lalande 21822.....	7·5†	89·85	6	11 22 25·818	+ 3·1548	— 0·012	...	...
1327	...	...	...	...	W.B. XI. 375	9·2†	90·43	3	11 23 33·130	+ 3·0974	— 0·004	...	...
1328	4784	...	...	15711	Lacaille 4784	7·8	91·13	22	11 23 45·518	+ 0·9447	— 0·114	...	...
1329	...	...	...	15761	C.G.A. 15761	7·6	95·22	17	11 24 45·191	— 5·5430	— 5·703	...	...
1330	...	...	...	...	Gilliss P.Z. 7980.....	8·4‡	92·83	22	11 24 53·804	—11·425	—17·702	...	...

1297. Fundamental star for Southern Zones.

No.	Mean Date. 1800+	No. of Obs.	Mean Dec. 1890·0.	Sec. of Final Dec.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_δ.	Corr. for μ_δ to 1890·0.	Fallows and Henderson.	Johnson.	Cape Catalogues. 1840.	1850.	1860.	1880.	1885.	Melbourne, 1870 and 1880.
			° ′ ″	″	″	″	″	″								
1296	91·31	11	— 58 22 45·02	45·37	— 19·455	— 0·08	+ 0·01	—0·01	...	...	1391	2024	...	6184	...	...
1297*	88·00	13	— 22 13 30·96	31·18	— 19·504	— 0·09	— 0·090	—0·18	201	256	1395	2029	...	6205	791	*649*
1298	89·95	6	— 31 50 10·96	11·33	— 19·518	— 0·09	...	...	...	...	1396	...	...	6211	...	...
1299	89·44	6	— 21 9 6·00	6·28	— 19·522	— 0·09	...	...	...	...	...	...	...	...	...	...
1300	95·53	12	— 85 9 9·90	9·96	— 19·532	+ 0·03	...	...	...	...	1406	...	...	6229	...	...
1301	91·98	12	— 63 34 17·56	17·66	— 19·543	— 0·07	0·00	0·00	...	...	1401	2035	...	6230	...	...
1302	90·33	9	+ 21 7 34·75	34·23	— 19·544	— 0·10	— 0·115	+0·04	*151*	...	1398	...	448	6228	792	555*
1303	88·54	24	+ 16 1 51·03	50·70	— 19·548	— 0·10	— 0·063	—0·09	...	...	...	...	...	...	793	...
1304	95·53	11	— 85 37 59·04	59·09	— 19·588	+ 0·03	...	...	...	...	...	...	...	6268	...	...
1305	88·79	6	— 46 42 16·94	17·17	— 19·595	— 0·08	...	...	...	...	...	...	...	6261	...	...
1306†	89·00	9	+ 32 8 53·73	53·22	— 19·621	— 0·09	— 0·573	—0·57	...	...	...	...	...	...	...	...
1307	92·75	12	+ 33 41 40·11	39·58	— 19·624	— 0·09	+ 0·052	—0·14	...	...	...	...	...	...	...	...
1308	89·34	2	+ 36 5 27·05	26·56	— 19·630	— 0·09	...	...	...	...	...	...	...	...	...	...
1309	88·82	4	+ 38 47 21·10	20·52	— 19·635	— 0·09	— 0·068	—0·08	...	...	...	...	...	6292	...	...
1310	89·12	6	+ 2 15 13·00	12·73	— 19·638	— 0·08	— 0·047	—0·04	...	...	...	...	...	...	...	...
1311	89·16	31	— 14 10 59·88	60·20	— 19·648	— 0·08	+ 0·209	+0·18	*106*	258	1407	2045	452	6298	799	557*
1312	92·34	12	— 79 3 57·32	57·47	— 19·674	— 0·04	...	...	...	...	1412	2049	...	6313	...	...
1313	90·62	26	+ 6 37 55·52	55·20	— 19·676	— 0·08	0·000	0·00	203	...	1410	2047	453	6312	801	*656*
1314	88·34	6	— 74 32 24·80	24·76	— 19·679	— 0·05	— 0·05*	—0·08	...	...	1413	2050	...	6316	802	...
1315	90·71	12	— 53 53 18·07	18·36	— 19·685	— 0·07	— 0·010	+0·01	204	259	1411	2048	454	6321	...	559
1316	90·49	6	+ 37 50 20·22	19·53	— 19·716	— 0·08	...	...	...	...	...	...	...	...	...	...
1317	90·50	6	— 56 10 33·24	33·55	— 19·719	— 0·06	...	...	...	...	1418	2058	...	6336	...	...
1318†	89·78	13	+ 11 8 6·41	5·98	— 19·720	— 0·07	— 0·063	—0·01	...	...	1416	2057	455	...	806	...
1319	88·82	12	— 1 36 25·07	25·29	— 19·738	— 0·07	...	...	...	...	...	...	...	...	...	...
1320†	87·60	3	— 17 4 47·90	48·16	— 19·739	— 0·07	+ 0·032	+0·08	...	261	1423	2061	...	6347	809	*659*
1321	91·09	12	— 35 27 32·42	32·77	— 19·751	— 0·06	+ 0·011	—0·01	...	...	1424	2062	...	6350	...	...
1322	90·12	8	+ 3 36 45·03	44·60	— 19·766	— 0·07	+ 0·181	—0·02	...	...	...	...	...	...	...	...
1323	90·44	1	+ 3 36 18·96	18·72	— 19·766	— 0·07	+ 0·181	—0·08	...	...	...	...	...	...	...	...
1324	88·13	5	— 11 45 8·33	8·51	— 19·772	— 0·07	+ 0·034	+0·06	...	...	...	2067	...	6359	812	*661*
1325	88·85	13	+ 3 27 43·29	42·92	— 19·782	— 0·07	— 0·006	—0·01	...	...	1433	2070	457	6367	813	*662*
1326	89·56	5	+ 20 40 23·50	22·99	— 19·784	— 0·07	...	...	...	...	...	...	...	...	...	...
1327	90·43	3	+ 6 42 16·95	16·69	— 19·800	— 0·06	...	...	...	...	...	...	...	...	...	...
1328	89·69	37	— 84 20 58·44	58·52	— 19·803	— 0·01	...	...	...	...	...	...	...	6387	815	564*
1329	95·10	24	— 88 38 17·99	17·98	— 19·816	+ 0·13	...	...	...	...	...	...	...	6404	...	*666*
1330*	92·83	22	— 89 11 38·27	38·27	— 19·817	+ 0·26	...	...	...	...	...	...	...	...	...	...

1306. Close binary ; $4^m{\cdot}2$, $5^m{\cdot}1$. Observed as one mass.
1320. $4^m{\cdot}2$, $11^m{\cdot}0$ 5″·1 98° 1877·2. Fainter star not seen.

1318. Binary ; $4^m{\cdot}1$, $6^m{\cdot}9$. No note of duplicity.
1330. Magnitude from Cape observations.

No.	Bradley or Lacaille.	Piazzi. 1800.	B.A.C. 1850.	C.G.A. 1875.	Star's Name.	Mag.	Mean Date. 1800+	No. of Obs.	Mean R.A. 1890·0.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_a.	Corr. for μ_a to 1890·0.
									h m s	s	s	s	s
1331	4774	...	3924	15755	Centauri .....o¹	4·9	91·22	7	11 26 40·983	+2·7523	+ 0·039	—0·004*	+ 0·005
1332	...	98	3925	15769	Piazzi XI. 98	6·4*	88·26	19	11 27 12·066	+3·0483	+ 0·004	—0·001	— 0·002
1333	4782	...	...	15781	Lacaille 4782	6·6*	88·46	15	11 27 26·486	+2·6401	+ 0·049	...	...
1334†	1580*	103	3928	15786	Hydræ .....ξ	3·8	91·17	12	11 27 35·451	+2·9582	+ 0·017	—0·0174	+ 0·020
1335	...	111	3937	...	PiazziXI.111(as one mass)	5·8	90·37	6	11 30 30·630	+3·1652	— 0·017	...	...
1336	4801	...	3939	15842	Lacaille 4801	7·2*	92·51	6	11 30 35·355	+2·7678	+ 0·043	...	...
1337†	...	...	3938	15841	Centauri .....C²	5·5	93·10	12	11 30 35·713	+2·8889	+ 0·028	0·000	0·000
1338†	4804	...	3941	15848	Centauri.....λ	3·3	93·81	12	11 30 42·599	+2·7463	+ 0·045	—0·0086	+ 0·033
1339*	1585	114	3943	15851	21 Crateris .....θ	4·7	87·36	1	11 31 6·190	+3·0453	+ 0·005	—0·0058	— 0·015
1340	1586	116	3946	15861	91 Leonis.....ν	4·5	89·10	21	11 31 19·013	+3·0719	0·000	—0·0018	— 0·002
1341†	4831	...	3957	15898	Chamæleontis .....π	5·7	86·37	4	11 32 43·736	+2·4682	+ 0·069	—0·0385	— 0·140
1342	...	...	...	...	Lalande 22085.....	8·0†	89·31	1	11 33 32·080	+3·0283	+ 0·009	...	...
1343	...	...	...	15930	Lalande 22104.....	6·6*	88·73	5	11 34 16·760	+3·0295	+ 0·009	...	...
1344†	1594*	133	3963	15950	Bradley 1594	5·0	91·15	11	11 34 44·922	+2·9728	+ 0·019	—0·0045	+ 0·005
1345	4865	...	...	15959	Lacaille 4865	7·5	92·50	18	11 34 55·174	+1·4438	— 0·019	...	...
1346	4866	...	3972	16018	Lacaille 4866	6·8*	88·34	6	11 37 23·449	+2·5938	+ 0·075	...	...
1347	...	...	...	16032	Brisbane 3736.....	7½*	87·77	7	11 38 11·569	+2·9099	+ 0·035	...	...
1348	4869	...	...	16046	Lacaille 4869	7·0*	89·71	6	11 38 37·639	+2·8357	+ 0·049	...	...
1349*	1598	150	3978	16053	27 Crateris .....ζ	4·9	88·66	6	11 39 11·240	+3·0337	+ 0·010	+0·0010	+ 0·001
1350	1600	152	3981	...	63 Ursæ Majoris .....χ	3·9	...	...	11 40 14·	+3·2021	— 0·035	—0·0145	...
1351†	4883	...	3984	16085	Muscæ .....λ	3·8	92·34	10	11 40 25·083	+2·8148	+ 0·057	—0·020	+ 0·047
1352†	4885	...	3986	16100	Lacaille 4885	4·3	92·66	12	11 41 11·676	+2·8783	+ 0·047	—0·0043	+ 0·011
1353†	4898	161	3994	16139	Lacaille 4898	5·7	90·80	11	11 43 11·725	+3·0244	+ 0·015	—0·0037	+ 0·003
1354	1605	163	3995	...	94 Leonis .....β	2·2	88·50	16	11 43 26·964	+3·0987	— 0·007	—0·0356	— 0·053
1355	...	...	3997	...	W.B. XI. 821	5·8	88·79	7	11 43 33·901	+3·1015	— 0·008	...	...
1356*	1606	166	4002	...	5 Virginis.....β	3·7	89·43	30	11 44 57·872	+3·0761	0·000	+0·0481	+ 0·027
1357	4905	...	4003	16167	Lacaille 4905	6·5	94·26	4	11 45 3·709	+3·0288	+ 0·016	...	...
1358†	4910	168	4007	16179	Centauri .....B	4·6	90·59	12	11 45 38·753	+2·9901	+ 0·029	—0·0109	+ 0·006
1359	...	...	...	16248	Brisbane 3821.....	7½*	88·48	8	11 48 56·758	+3·0156	+ 0·027	...	...
1360	4941	...	4034	16282	Lacaille 4941	6·7*	94·26	4	11 50 19·768	+3·0267	+ 0·025	...	...
1361	4948	...	...	16318	Lacaille 4948	7·0*	88·26	12	11 51 55·106	+3·0491	+ 0·016	...	...
1362	...	202	...	...	Piazzi XI. 202.....	6·7†	88·81	5	11 52 28·222	+3·1009	— 0·019	...	...
1363†	4959	...	4040	16341	Lacaille 4959	5·6	91·10	12	11 52 41·702	+3·0101	+ 0·043	—0·006	+ 0·007
1364	...	207	4043	...	Piazzi XI. 207.....	6·8†	89·76	5	11 53 25·632	+3·0733	+ 0·001	—0·006	— 0·001
1365†	4974	...	4048	16382	Chamæleontis(as one mass)ε	5·1	86·96	6	11 54 10·435	+2·9177	+ 0·124	—0·0166	— 0·050

1331, 1334, 1337, 1351, 1358. B.A.C. gives no letter.
1344. *o* Hydræ in C.G.A.

1341. π^1 Chamæleontis in B.A.C.
1346. π^2 Chamæleontis in B.A.C.

No.	Mean Date. 1800+	No. of Obs.	Mean Dec. 1890·0.	Sec. of Final Dec.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_δ.	Corr. for μ_δ to 1890·0.	Fallows and Henderson.	Johnson.	Cape Catalogues. 1840.	1850.	1860.	1880.	1885.	Melbourne, 1870 and 1880.
			° ′ ″	″	″	″	″	″								
1331*	91·22	7	— 58 50 6·05	6·31	— 19·841	— 0·05	— 0·04*	+0·05	...	...	1442	...	...	6409	...	...
1332	88·26	19	— 7 13 12·73	12·96	— 19·848	— 0·06	+ 0·01	+0·02	...	...	...	...	...	6418	817	...
1333	88·46	15	— 66 21 16·79	16·86	— 19·851	— 0·05	...	...	...	...	...	...	...	6424	818	566
1334*	91·17	12	— 31 14 56·40	56·59	— 19·853	— 0·05	— 0·038	+0·04	...	263	1445	2080	461	6425	819	567*
1335†	90·37	6	+ 28 23 21·25	20·73	— 19·887	— 0·05	...	...	...	...	...	...	...	...	...	...
1336	92·51	6	— 60 40 46·01	46·12	— 19·888	— 0·04	...	...	...	...	...	2087	...	6449	...	...
1337*	93·10	12	— 47 1 54·25	54·44	— 19·888	— 0·05	— 0·05	+0·16	...	...	1452	2086	...	6448	...	...
1338	93·81	12	— 62 24 40·44	40·54	— 19·889	— 0·04	— 0·019	+0·07	209	264	1453	2089	464	6452	821	570
1339	87·36	1	— 9 11 38·15	38·39	— 19·894	— 0·05	+ 0·010	+0·03	...	265	...	2090	...	6454	822	*670*
1340	88·64	36	— 0 12 59·07	59·36	— 19·896	— 0·05	+ 0·047	+0·06	210	...	1456	...	465	6462	823	571*
1341*	86·83	15	— 75 17 15·34	15·53	— 19·911	— 0·03	— 0·010	—0·03	...	...	1462	...	...	6481	824	...
1342	89·31	1	— 16 0 12·04	12·24	— 19·919	— 0·04	...	...	...	...	...	...	...	...	...	...
1343	88·73	5	— 16 0 38·08	38·30	— 19·927	— 0·04	...	...	...	...	...	...	...	...	...	...
1344*	91·15	11	— 34 8 5·95	6·32	— 19·931	— 0·04	+ 0·014	—0·02	...	...	1465	2100	...	6510	...	*673*
1345	90·95	27	— 84 52 38·91	38·94	— 19·933	— 0·01	...	...	...	...	...	...	...	6513	827	573*
1346*	88·34	6	— 74 37 0·83	0·79	— 19·955	— 0·03	...	...	...	...	1472	2104	...	6543	829	...
1347	87·77	7	— 52 0 34·98	35·15	— 19·962	— 0·03	...	...	...	...	...	...	...	6546	...	...
1348	89·71	6	— 62 16 1·70	1·82	— 19·966	— 0·03	...	...	...	...	...	...	...	6554	...	...
1349	88·46	7	— 17 44 21·01	21·18	— 19·970	— 0·03	— 0·009	—0·01	...	266	1478	2109	...	6555	831	*675*
1350	90·67	12	+ 48 23 23·84	22·61	— 19·978	— 0·03	+ 0·030	—0·02	...	...	1482	...	...	6563	832	...
1351*	92·34	10	— 66 7 8·11	8·25	— 19·980	— 0·03	+ 0·03	—0·07	...	...	1485	2113	...	6567	833	576
1352	92·66	12	— 60 34 0·70	0·82	— 19·986	— 0·03	— 0·026	+0·07	...	...	1487	2115	...	6573	...	577
1353	90·80	11	— 26 8 16·98	17·32	— 19·999	— 0·03	— 0·005	0·00	...	...	1490	2119	...	6592	...	...
1354	87·64	11	+ 15 11 13·30	12·90	— 20·001	— 0·02	— 0·098	—0·23	211*	...	1491	2120	470	6593	835	580*
1355	88·79	7	+ 16 51 21·59	21·27	— 20·001	— 0·02	...	...	...	...	...	...	...	...	...	...
1356	89·82	45	+ 2 23 4·83	4·57	— 20·010	— 0·02	— 0·262	—0·05	212*	...	1495	2124	471	6605	836	*679*
1357	94·26	4	— 26 39 58·91	59·05	— 20·010	— 0·02	...	...	...	...	...	2125	...	6606	...	...
1358*	90·52	11	— 44 33 40·90	41·14	— 20·014	— 0·02	— 0·034	+0·02	...	...	1498	2128	...	6614	...	...
1359	88·16	10	— 41 25 58·84	58·99	— 20·030	— 0·01	...	...	...	...	...	...	...	6636	...	...
1360	94·26	4	— 39 4 36·14	36·26	— 20·035	— 0·01	...	...	...	...	...	2142	...	6648	...	...
1361	88·26	12	— 26 26 29·65	29·82	— 20·041	— 0·01	...	...	...	...	...	...	...	6658	...	...
1362	88·57	6	+ 32 53 17·25	16·76	— 20·042	— 0·01	...	...	...	...	...	...	...	...	...	...
1363	91·10	12	— 55 42 17·13	17·42	— 20·043	— 0·01	— 0·026	+0·03	...	...	1522	2146	...	6667	...	...
1364	89·19	6	+ 1 8 31·78	31·50	— 20·045	— 0·01	+ 0·04	+0·03	...	...	...	...	...	...	...	...
1365†	87·20	16	— 77 36 33·32	33·43	— 20·047	0·00	— 0·014	—0·04	...	268	1526	2153	475	6684	840	588

1335. Very close suspected binary ; $6^m{\cdot}4$, $6^m{\cdot}8$. Observed as one mass.

1365. $5^m{\cdot}6$, $6^m{\cdot}3$ $1''{\cdot}8$ 183°.

No.	Bradley or Lacaille.	Piazzi. 1800.	B.A.C. 1850.	C.G.A. 1875.	Star's Name.	Mag.	Mean Date. 1800+	No. of Obs.	Mean R.A. 1890·0.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_α.	Corr. for μ_α to 1890·0.
									h m s	s	s	s	s
1366	1617	208	4049	...	7 Virginis ..... b	5·2	88·33	3	11 54 18·873	+3·0750	— 0·001	—0·0022	— 0·004
1367	...	209	...	...	Piazzi XI. 209.....	6·9†	90·61	5	11 54 26·820	+3·0843	— 0·010	...	...
1368	1618	211	4052	...	8 Virginis ..... π	4·4	92·69	13	11 55 14·180	+3·0760	— 0·002	—0·0028	+ 0·008
1369	...	213	4054	16409	Piazzi XI. 213	6·6*	92·38	6	11 55 23·867	+3·0720	+ 0·002	—0·003	+ 0·007
1370	4991	...	4058	16438	Lacaille 4991	5·9	91·87	25	11 56 50·394	+2·8610	+ 0·298	...	...
1371†	4990	...	4061	16451	Crucis ..... θ^1	4·5	91·04	11	11 57 25·563	+3·0435	+ 0·059	—0·023	+ 0·024
1372†	4992	220	4062	16458	Lacaille 4992	5·4	90·38	8	11 57 57·782	+3·0618	+ 0·028	+0·0261	— 0·010
1373	5004	...	4071	16484	Chamæleontis ..... κ	4·9	91·15	6	11 59 5·702	+3·0516	+ 0·121	...	...
1374	1623	228	4072	...	9 Virginis ..... o	4·3	90·59	34	11 59 36·334	+3·0729	— 0·003	—0·0159	+ 0·009
1375	5013	...	...	16512	Lacaille 5013	6·5	88·63	4	12 0 17·461	+3·0737	+ 0·023	...	...
1376	...	...	...	16525	Brisbane 3920.....	8*	91·22	6	12 0 34·652	+3·0815	+ 0·081	...	...
1377	5023	...	4078	16541	Crucis ..... η	4·3	88·95	5	12 1 8·797	+3·0863	+ 0·064	...	...
1378	5027	...	...	16555	Lacaille 5027	7·2	91·97	5	12 1 51·923	+3·0834	+ 0·032	...	...
1379	...	...	...	16556	C.G.A. 16556	6·9*	93·32	6	12 1 56·312	+3·0792	+ 0·020	...	...
1380	5028	...	4082	16560	Lacaille 5028	5·1	88·34	6	12 2 2·418	+3·1163	+ 0·115	...	...
1381	...	239	4083	...	Piazzi XI. 239.....	7·5†	92·01	6	12 2 22·643	+3·0722	+ 0·002	—0·001	+ 0·002
1382†	5033	...	4087	16572	Centauri ..... δ	2·8	92·14	14	12 2 39·528	+3·0911	+ 0·038	—0·0055	+ 0·012
1383	1624*	241	4090	16576	1 Corvi ..... α	4·3	89·10	4	12 2 44·380	+3·0796	+ 0·015	+0·0045	+ 0·004
1384	5036	243	4091	16588	Lacaille 5036	6·0	94·26	4	12 3 12·458	+3·0903	+ 0·030	...	...
1385	5040	...	...	16600	Lacaille 5040	7½*	89·88	6	12 3 50·484	+3·1248	+ 0·074	...	...
1386	5043	247	4095	16612	Lacaille 5043	*	87·55	5	12 4 21·753	+3·0897	+ 0·022	...	...
1387	...	...	...	...	Lalande 22814.....	7·3†	89·05	6	12 4 23·857	+3·0615	— 0·010	...	...
1388*	1626	248	4097	16615	2 Corvi ..... ε	3·1	86·33	3	12 4 28·019	+3·0830	+ 0·014	—0·0065	— 0·024
1389	5045	...	4098	16622	Lacaille 5045	6·4*	90·48	6	12 4 51·532	+3·0940	+ 0·025	...	...
1390	1629	4	4101	16634	3 Corvi.....	5·3	90·04	6	12 5 23·978	+3·0859	+ 0·015	—0·005	0·000
1391	5052	...	4102	16641	Lacaille 5052	7·0*	94·30	4	12 5 43·858	+3·1044	+ 0·031	...	...
1392	5055	...	4103	16652	Centauri..... ρ	4·2	92·10	9	12 5 54·222	+3·1162	+ 0·041	...	...
1393	1630	7	4107	...	4 Comæ	5·9	90·67	6	12 6 16·260	+3·0543	— 0·013	—0·0035	+ 0·002
1394	1632	9	4110	...	5 Comæ	5·6	89·86	6	12 6 33·677	+3·0577	— 0·009	—0·0014	0·000
1395	1635	13	4114	...	12 Virginis	5·8	89·50	7	12 7 49·870	+3·0637	— 0·003	—0·0076	— 0·004
1396	5066	...	...	16690	Lacaille 5066	6·5*	87·36	4	12 7 54·059	+3·1026	+ 0·022	...	...
1397	5096	...	...	16709	Lacaille 5096	6·7	95·09	24	12 8 46·983	+4·4081	+ 1·458	...	...
1398†	5075	...	4120	16726	Crucis ..... δ	3·1	89·94	12	12 9 18·355	+3·1598	+ 0·053	—0·0070	0·000
1399*	1638	24	4124	16744	4 Corvi ..... γ	2·8	88·50	4	12 10 8·910	+3·0905	+ 0·012	—0·0123	— 0·018
1400	5079	...	...	16750	Lacaille 5079	6·5*	92·49	6	12 10 19·676	+3·2579	+ 0·105	...	...

1380. λ Chamæleontis in B.A.C.

1388. Fundamental star for Southern Zones.

No.	Mean Date. 1800+	No. of Obs.	Mean Dec. 1890·0.	Sec. of Final Dec.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_δ.	Corr. for μ_δ to 1890·0.	Fallows and Henderson.	Johnson.	Cape Catalogues. 1840.	1850.	1860.	1880.	1885.	Melbourne, 1870 and 1880.
			° ′ ″	″	″	″	″	″								
1366	88·11	4	+ 4 16 4·22	3·97	− 20·047	0·00	+ 0·015	+0·03	...	...	1525	...	476	6686	...	...
1367	89·89	6	+ 20 1 57·12	56·73	− 20·047	0·00	...	...	...	...	...	...	...	...	...	...
1368	93·25	12	+ 7 13 39·77	39·46	− 20·049	0·00	− 0·017	+0·06	...	...	1528	2154	477	6692	843	*686*
1369	92·38	6	− 1 9 12·55	12·88	− 20·049	0·00	− 0·04	+0·10	214	...	...	2156	...	...	...	...
1370	90·22	47	− 85 1 8·96	8·99	− 20·051	0·00	...	...	...	...	1533	2157	...	6703	846	590*
1371	90·98	12	− 62 42 1·89	2·07	− 20·052	0·00	− 0·02	+0·02	...	...	1535	2159	478	6711	...	...
1372	90·38	8	− 41 49 4·94	5·17	− 20·052	0·00	− 0·123	+0·05	...	...	1536	2160	...	6713	...	...
1373	92·67	12	− 75 54 28·10	28·24	− 20·053	+ 0·01	...	...	...	...	1539	2164	...	6727	...	...
1374	89·78	36	+ 9 20 38·27	37·95	− 20·053	+ 0·01	+ 0·049	+0·01	...	...	1540	2165	...	6736	849	...
1375	88·63	4	− 35 4 52·99	53·12	− 20·053	+ 0·01	...	...	...	...	...	...	...	6743	...	...
1376	91·22	6	− 69 11 7·72	7·94	− 20·053	+ 0·01	...	...	...	...	...	...	...	6749	...	...
1377	88·95	5	− 64 0 0·81	0·86	− 20·053	+ 0·01	...	...	...	269	1545	2170	...	6754	...	594
1378	91·97	5	− 44 58 7·42	7·66	− 20·052	+ 0·01	...	...	...	...	...	...	...	6759	...	...
1379	93·32	6	− 30 47 41·69	41·92	− 20·052	+ 0·01	...	...	...	...	...	...	...	...	...	...
1380*	88·34	6	− 74 45 18·49	18·45	− 20·052	+ 0·01	...	...	...	...	1547	2172	...	6760	852	...
1381	92·01	6	+ 1 14 3·53	3·30	− 20·052	+ 0·01	− 0·03	+0·06	...	...	...	...	...	...	...	...
1382	91·92	12	− 50 6 34·91	35·15	− 20·052	+ 0·01	− 0·021	+0·04	217*	270	1551	2176	481	6766	853	595*
1383	88·75	5	− 24 6 55·16	55·38	− 20·052	+ 0·01	− 0·034	−0·04	...	271	1553	2179	482	6768	...	...
1384	94·26	4	− 43 42 43·99	44·09	− 20·051	+ 0·02	...	...	...	...	1556	2180	...	6770	...	*692*
1385	89·88	6	− 66 50 29·82	29·98	− 20·050	+ 0·02	...	...	...	...	...	...	...	6773	...	...
1386†	87·55	5	− 34 5 31·82	31·97	− 20·049	+ 0·02	...	...	...	...	1557	2183	...	6777	...	597
1387	89·05	6	+ 23 15 6·17	5·81	− 20·049	+ 0·01	...	...	...	...	...	...	...	...	...	...
1388*	86·00	2	− 22 0 27·54	27·89	− 20·049	+ 0·02	+ 0·025	+0·10	...	272	1558	2184	484	6778	857	598*
1389	90·48	6	− 37 15 25·20	25·59	− 20·048	+ 0·02	...	...	...	...	1559	2185	...	6781	...	...
1390	90·04	6	− 22 59 22·55	22·76	− 20·047	+ 0·02	− 0·002	0·00	...	...	...	2186	...	6789	...	...
1391	94·30	4	− 43 40 10·29	10·41	− 20·047	+ 0·02	...	...	...	...	...	2187	...	6790	...	...
1392	91·40	6	− 51 45 21·10	21·37	− 20·046	+ 0·02	...	...	...	273	1563	2188	...	6793	858	599
1393	90·67	6	+ 26 28 59·51	58·99	− 20·046	+ 0·02	− 0·037	+0·02	...	...	...	...	...	...	...	...
1394	89·86	6	+ 21 9 16·17	15·78	− 20·045	+ 0·02	− 0·018	0·00	...	...	...	...	...	...	...	...
1395	89·53	6	+ 10 52 27·65	27·29	− 20·041	+ 0·02	− 0·004	0·00	...	...	1567	...	...	...	860	...
1396	87·36	4	− 33 10 50·10	50·28	− 20·041	+ 0·02	...	...	...	...	...	...	...	6810	...	...
1397	95·09	24	− 87 48 13·17	13·18	− 20·038	+ 0·03	...	...	...	...	1569	...	...	6821	...	...
1398	89·94	12	− 58 8 12·82	13·02	− 20·036	+ 0·03	− 0·007	0·00	218*	274	1573	...	485	6824	861	601
1399	88·50	4	− 16 55 52·28	52·42	− 20·033	+ 0·03	+ 0·034	+0·05	219*	275	1577	2196	...	6828	862	*696*
1400	92·49	6	− 72 0 9·08	9·12	− 20·033	+ 0·03	...	...	...	...	...	...	...	6829	...	...

1386. $6^m{\cdot}6$, $8^m{\cdot}5$ 3″·0 20°. Fainter star probably not seen.

No.	Bradley or Lacaille. 1800.	Piazzi. 1800.	B.A.C. 1850.	C.G.A. 1875.	Star's Name.	Mag.	Mean Date. 1800+	No. of Obs.	Mean R.A. 1890·0.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_a.	Corr. for μ_a to 1890·0.
									h m s	s	s	s	s
1401	1640	27	4126	...	2 Canum Venaticûm..*seq.*	6·1	...	...	12 10 37	+ 3·0183	— 0·023	+0·0025	...
1402†	5084	...	4129	16761	Muscæ .....ε	4·2	90·55	11	12 11 37·860	+ 3·2351	+ 0·082	—0·044	+ 0·024
1403†	5085	...	4131	16766	Chamæleontis .....β	4·3	85·93	11	12 11 54·291	+ 3·4197	+ 0·185	—0·0176	— 0·072
1404	...	...	...	...	B.D. — 17° No. 3598 ...	9·5†	89·37	3	12 13 27·930	+ 3·0972	+ 0·012	...	...
1405	5101	...	...	16811	Lacaille 5101	7*	87·35	6	12 14 12·299	+ 3·1131	+ 0·018	...	...
1406*	1647	44	4145	...	15 Virginis .....η	4·1	89·12	24	12 14 16·686	+ 3·0726	+ 0·003	—0·0056	— 0·005
1407	1649	47	4149	16820	Bradley 1649(as one mass)	6·5*	87·36	4	12 14 29·067	+ 3·1059	+ 0·015	—0·0076	— 0·020
1408	1652	50	4151	...	16 Virginis .....*c*	5·2	93·81	12	12 14 45·697	+ 3·0666	+ 0·001	—0·0213	+ 0·081
1409†	5110	...	4158	16835	Crucis .....ε	3·5	93·46	12	12 15 25·504	+ 3·2269	+ 0·059	—0·0252	+ 0·087
1410	5107	...	4164	16859	Lacaille 5107	6·3	94·03	21	12 16 53·366	+ 4·3346	+ 0·698	...	...
1411	...	...	...	...	B.D. — 17° No. 3608....	9·2†	90·18	6	12 17 1·020	+ 3·1038	+ 0·012	...	...
1412†	5141	...	4182	16923	Lacaille 5141	6·2	89·64	12	12 19 18·832	+ 3·1735	+ 0·031	—0·016	— 0·006
1413	...	...	...	...	Lalande 23225.....	7·2†	91·35	6	12 19 20·030	+ 3·0031	— 0·014	...	...
1414†	5142	74	4183	16929	Centauri .....x^2	5·8	90·81	9	12 19 33·977	+ 3·1511	+ 0·024	—0·013	+ 0·011
1415	1664	79	4188	...	6 Canum Venaticûm.....	5·3	87·37	1	12 20 25·651	+ 2·9740	— 0·020	—0·0079	— 0·021
1416†	5148	...	4187	16942	Crucis .....*pr. a*	1½*	88·00	5	12 20 28·990	+ 3·3016	+ 0·069	—0·0058	— 0·012
1417	1665	81	4191	...	14 Comæ	5·1	91·37	6	12 20 54·010	+ 3·0081	— 0·012	—0·0033	+ 0·005
1418†	5154	80	4192	16957	Lacaille 5154	5·6	90·38	6	12 21 3·879	+ 3·1498	+ 0·023	—0·0030	+ 0·001
1419	5155	...	...	16960	Lacaille 5155	7·2	91·56	6	12 21 16·070	+ 3·2502	+ 0·050	...	...
1420†	5162	...	4197	16976	Centauri.....σ	4·1	93·18	12	12 22 5·542	+ 3·2238	+ 0·041	—0·0058	+ 0·018
1421	...	87	4198	16979	Piazzi XII. 87	6·9*	92·89	6	12 22 6·724	+ 3·1095	+ 0·012	...	...
1422	...	...	...	...	Lalande 23315.....	7·4	...	...	12 22 9	+ 2·9566	— 0·022	...	...
1423	...	...	...	...	B.D. — 18° No. 3397 ...	8·5†	91·37	6	12 22 32·885	+ 3·1163	+ 0·013	...	...
1424	1674	100	4209	...	18 Comæ.....	5·5	87·89	4	12 23 56·830	+ 3·0083	— 0·010	—0·0033	— 0·007
1425*	1675	101	4211	17030	7 Corvi .....*seq.* δ	3·0†	88·03	33	12 24 10·390	+ 3·1126	+ 0·012	—0·0154	— 0·030
1426	1676	102	4212	...	20 Comæ	5·7	90·10	10	12 24 11·650	+ 3·0170	— 0·008	+0·0033	0·000
1427	5176	...	...	17032	Lacaille 5176	7½*	88·21	5	12 24 14·787	+ 3·1589	+ 0·022	...	...
1428	...	104	4213	17038	Piazzi XII. 104	*	94·30	6	12 24 24·509	+ 3·1048	+ 0·010	—0·019	+ 0·082
1429†	5180	...	4215	17048	Crucis .....γ	1·6	94·10	12	12 25 3·991	+ 3·2930	+ 0·054	+0·0018	— 0·007
1430†	5184	...	4224	17072	Muscæ .....γ	4·0	91·69	12	12 25 54·247	+ 3·5237	+ 0·118	—0·0161	+ 0·027
1431	5192	...	...	17089	Lacaille 5192	7·4	87·46	4	12 26 22·179	+ 3·1506	+ 0·019	...	...
1432	1686	126	4235	...	8 Canum Venaticûm.....	4·3	87·40	5	12 28 31·165	+ 2·9234	— 0·021	—0·0650	— 0·169
1433*	1685	123	4234	17129	9 Corvi .....β	2·8	86·12	8	12 28 36·560	+ 3·1424	+ 0·016	—0·0016	— 0·006
1434	...	130	4240	...	23 Comæ	4·9	90·58	12	12 29 22·165	+ 2·9992	— 0·008	...	...
1435	1688	133	4242	...	24 Comæ .....*seq.*	5·2	90·39	31	12 29 36·729	+ 3·0132	— 0·006	—0·0009	0·000

1414. κ^2 Centauri in B.A.C.

1432. β Canum Venaticûm in B.A.C.

1433. Fundamental star for Southern Zones.

No.	Mean Date. 1800+	No. of Obs.	Mean Dec. 1890·0.	Sec. of Final Dec.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_δ.	Corr. for μ_δ to 1890·0.	Fallows and Henderson.	Johnson.	Cape Catalogues. 1840.	1850.	1860.	1880.	1885.	Melbourne, 1870 and 1880.
			° ′ ″	″	″	″	″	″								
1401	93·58	12	+ 41 16 22·67	22·00	— 20·032	+ 0·03	— 0·031	+0·11	...	...	...	...	...	...	...	...
1402	90·55	11	— 67 26 54·86	55·06	— 20·027	+ 0·03	— 0·03	+0·02	...	...	1580	2197	...	6834	...	602
1403	86·12	17	— 78 42 5·08	5·23	— 20·026	+ 0·04	+ 0·019	+0·07	220*	276	1581	...	486	6836	864	603*
1404	89·37	3	— 17 28 10·84	10·97	— 20·018	+ 0·03	...	...	...	...	...	...	...	...	...	...
1405	87·35	6	— 26 7 31·87	32·07	— 20·015	+ 0·04	...	...	...	...	...	...	...	6850	...	...
1406	89·05	37	— 0 3 19·24	19·52	— 20·014	+ 0·04	— 0·022	—0·02	...	...	1588	2205	488	6852	866	605*
1407†	87·36	4	— 21 33 50·23	50·50	— 20·013	+ 0·04	— 0·02	—0·05	...	...	...	2207	...	6855	...	...
1408	93·81	12	+ 3 55 30·39	30·10	— 20·011	+ 0·04	— 0·063	+0·24	...	...	1589	2208	...	...	...	...
1409	93·46	12	— 59 47 35·03	35·14	— 20·008	+ 0·04	+ 0·085	—0·29	...	277	1591	2212	...	6865	...	606
1410	93·79	24	— 85 32 25·34	25·38	— 19·999	+ 0·06	...	...	...	...	1595	2216	...	6874	...	...
1411	90·18	6	— 17 31 16·46	16·72	— 19·998	+ 0·04	...	...	...	...	...	...	...	...	...	...
1412	89·78	13	— 41 54 13·90	14·10	— 19·982	+ 0·05	— 0·02	0·00	...	...	...	2227	...	6901	...	...
1413	91·35	6	+ 31 38 35·80	35·14	— 19·982	+ 0·05	...	...	...	...	...	...	...	...	...	...
1414*	90·47	10	— 34 34 35·59	35·73	— 19·980	+ 0·05	— 0·021	+0·01	...	...	1599	2228	...	6904	...	...
1415	92·78	11	+ 39 37 45·00	44·41	— 19·973	+ 0·05	— 0·023	+0·06	...	...	...	...	...	...	871	...
1416	88·00	5	— 62 29 21·25	21·36	— 19·973	+ 0·05	— 0·021	—0·04	223*	279	1601	2229	489	6908	872	611*
1417	91·37	6	+ 27 52 39·73	39·12	— 19·970	+ 0·05	— 0·010	+0·01	...	...	...	...	...	...	...	...
1418	89·65	8	— 32 13 12·26	12·46	— 19·968	+ 0·05	— 0·047	—0·02	...	...	1605	2232	...	6915	...	...
1419	91·56	6	— 55 7 32·72	32·91	— 19·967	+ 0·05	...	...	...	...	...	...	...	6917	...	...
1420	93·18	12	— 49 37 16·72	16·86	— 19·960	+ 0·05	— 0·020	+0·06	...	280	1609	2233	...	6922	874	613
1421	92·89	6	— 16 1 23·08	23·27	— 19·960	+ 0·05	...	...	...	...	...	2234	...	...	...	...
1422	92·90	6	+ 41 57 51·93	51·21	— 19·960	+ 0·05	...	...	...	...	...	...	...	...	...	...
1423	91·37	6	— 18 26 18·07	18·29	— 19·956	+ 0·05	...	...	...	...	...	...	...	...	...	...
1424	87·79	5	+ 24 43 3·04	2·67	— 19·944	+ 0·05	— 0·004	—0·01	...	...	...	...	...	...	...	...
1425	90·09	54	— 15 54 10·55	10·79	— 19·942	+ 0·06	— 0·146	+0·01	224*	281	...	2240	...	6943	876	*706*
1426	90·11	9	+ 21 30 18·79	18·39	— 19·941	+ 0·05	— 0·017	0·00	...	...	...	...	...	...	877	...
1427	88·21	5	— 31 27 3·93	4·06	— 19·941	+ 0·06	...	...	...	...	...	...	...	6944	...	...
1428†	94·30	6	— 12 47 1·01	1·20	— 19·940	+ 0·06	— 0·04	+0·17	...	...	...	2241	...	...	...	...
1429	94·10	12	— 56 29 50·60	50·70	— 19·933	+ 0·06	— 0·266	+1·09	225*	282	1612	...	...	6947	878	616
1430	91·69	12	— 71 31 30·68	30·75	— 19·925	+ 0·07	— 0·006	+0·01	...	283	1616	2245	...	6958	879	617
1431	87·46	4	— 26 57 31·87	32·08	— 19·920	+ 0·06	...	...	...	...	1617	...	...	6965	...	...
1432*	87·33	6	+ 41 57 19·08	18·38	— 19·898	+ 0·06	+ 0·285	+0·76	...	...	...	...	...	...	...	*708*
1433*	86·10	10	— 22 47 17·18	17·50	— 19·897	+ 0·07	— 0·052	—0·20	227*	285	1620	2249	493	6982	882	618*
1434	90·58	12	+ 23 14 6·24	5·78	— 19·889	+ 0·06	...	...	...	...	...	...	...	...	...	...
1435	90·49	41	+ 18 58 58·03	57·70	— 19·886	+ 0·07	+ 0·031	—0·02	...	...	...	...	...	...	884	...

1407. $6^m·7$, $8^m·8$ 1″·0 140°; change uncertain. Observed as one mass.
1428. $6^m·7$, $9^m·8$ 2″·0 354° 1875·3: 1″·8 9° 1891·3. Fainter star probably not seen.
1433. Suspected variable.

No.	Bradley or Lacaille.	Piazzi. 1800.	B.A.C. 1850.	C.G.A. 1875.	Star's Name.	Mag.	Mean Date. 1800+	No. of Obs.	Mean R.A. 1890·0.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_a.	Corr. for μ_a to 1890·0.
									h m s	s	s	s	s
1436	5212	...	...	17148	Lacaille 5212	7·1*	91·56	6	12 30 6·955	+ 3·2952	+ 0·047	...	...
1437†	5213	...	4245	17156	Muscæ .....*a*	2·9	93·33	6	12 30 37·833	+ 3·5252	+ 0·101	—0·0083	+ 0·028
1438	...	...	...	...	B.D. — 19° No. 3524 ...	9·3†	89·36	4	12 30 46·450	+ 3·1357	+ 0·014	...	...
1439	5220	...	...	17163	Lacaille 5220	7½*	87·36	4	12 31 1·849	+ 3·1834	+ 0·023	...	...
1440	1690	136	4247	17166	25 Virginis .....*f*	5·9	90·33	6	12 31 7·422	+ 3·0890	+ 0·006	—0·0035	+ 0·001
1441	...	...	...	...	B.D. — 19° No. 3528 ...	8·5†	90·11	7	12 31 26·560	+ 3·1372	+ 0·014	...	...
1442	1692	137	4248	...	25 Comæ	5·6	91·04	6	12 31 27·405	+ 3·0141	— 0·005	—0·0047	+ 0·005
1443	5222	...	4251	17180	Centauri.....*τ*	4·0	90·85	6	12 31 41·278	+ 3·2766	+ 0·041	...	...
1444	...	...	...	...	B.D. — 19° No. 3529 ...	9·2†	91·44	1	12 32 0·080	+ 3·1385	+ 0·015	...	...
1445	5221	...	...	17191	Lacaille 5221	6·7	88·34	6	12 32 11·647	+ 3·7599	+ 0·161	...	...
1446	1696	150	4258	...	9 Canum Venaticûm	6·1	...	...	12 33 29	+ 2·9005	— 0·019	—0·0021	...
1447†	5243	...	4264	17269	Centauri (as one mass)γ	2·4	90·48	18	12 35 27·047	+ 3·3041	+ 0·042	—0·0217	+ 0·010
1448	1698	157	4268	17291	29 Virginis .....*pr.* γ	3·6	89·00	9	12 36 5·121	+ 3·0756	+ 0·004	—0·0385	— 0·039
1449	1699	158	4268	17292	29 Virginis .....*seq.* γ	3·6	88·00	1	12 36 5·410	+ 3·0756	+ 0·004	—0·0385	— 0·077
1450	5235	...	...	17241	Lacaille 5235	6·6	92·77	29	12 37 41·839	+18·660	+23·397	—0·088*	+ 0·250
1451†	5263	168	4278	17343	Piazzi XII. 168	5·9	88·18	10	12 38 8·739	+ 3·1889	+ 0·020	—0·0044	— 0·008
1452	...	...	...	...	B.D. — 20° No. 3709 ...	9·5†	89·79	5	12 39 18·566	+ 3·1598	+ 0·016	...	...
1453†	5267	...	4280	17374	Muscæ (as one mass) β	3·3	91·99	12	12 39 32·429	+ 3·6268	+ 0·101	—0·0098	+ 0·020
1454	...	...	4287	...	Lalande 23793.....	5·6	88·06	3	12 39 57·431	+ 2·8321	— 0·021	...	...
1455	5278	...	...	17403	Lacaille 5278	6·3*	87·93	4	12 40 49·861	+ 3·2247	+ 0·025	...	...
1456	5266	...	...	17401	Lacaille 5266	7·2	93·72	8	12 41 2·975	+ 4·4373	+ 0·322	...	...
1457†	5277	...	4289	17411	Crucis.....β	1·5	92·09	11	12 41 17·815	+ 3·4726	+ 0·066	—0·0074	+ 0·015
1458	5268	...	4293	17440	Octantis .....*ι*	5·4	92·73	36	12 43 29·239	+ 5·7034	+ 0·833	+0·035†	— 0·096
1459†	5296	194	4309	17473	Centauri.....*p*	5·1	88·97	12	12 44 43·102	+ 3·2434	+ 0·025	—0·0036	— 0·004
1460	5304	...	...	17494	Lacaille 5304	6·2	89·51	8	12 46 5·211	+ 3·2035	+ 0·020	...	...
1461	1715	200	4315	...	31 Comæ	5·0	91·42	6	12 46 20·410	+ 2·9289	— 0·010	—0·0027	+ 0·004
1462	5303	...	...	17504	Lacaille 5303	5·8	88·23	16	12 46 48·533	+ 3·5370	+ 0·069	...	...
1463	5311	...	...	17514	Lacaille 5311	7·2	95·53	2	12 47 9·136	+ 3·2920	+ 0·031	...	...
1464†	5312	205	4321	17521	Centauri.....*n*	4·3	92·65	12	12 47 20·724	+ 3·2992	+ 0·032	+0·0030	— 0·008
1465	...	...	...	17523	Brisbane 4231	7¼*	89·33	1	12 47 25·770	+ 3·5434	+ 0·070	...	...
1466	5316	...	4324	17540	Crucis.....λ	4·8	91·40	7	12 48 7·440	+ 3·5280	+ 0·066	...	...
1467	5320	215	...	17563	Lacaille 5320	7·1*	91·71	6	12 48 59·184	+ 3·3250	+ 0·035	...	...
1468	5326	...	...	17574	Lacaille 5326	6·9*	88·76	3	12 49 35·142	+ 3·2347	+ 0·023	...	...
1469	...	221	...	...	Piazzi XII. 221	7·3†	91·06	6	12 49 59·422	+ 3·0105	— 0·001	...	...
1470*	1723	223	4340	...	43 Virginis .....*c*	3·7	88·41	27	12 50 3·779	+ 3·0523	+ 0·003	—0·0336	— 0·053

1448, 1449. γ' Virginis in Fallows' Catalogue.

1459, 1464. B.A.C. gives no letter.

No.	Mean Date. 1800+	No. of Obs.	Mean Dec. 1890·0.	Sec. of Final Dec.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_δ.	Corr. for μ_δ to 1890·0.	Fallows and Henderson.	Johnson.	Cape Catalognes. 1840.	1850.	1860.	1880.	1885.	Melbourne, 1870 and 1880.
			° ′ ″	″	″	″	″	″								
1436	91·56	6	— 51 48 40·11	40·27	— 19·880	+ 0·07	...	...	...	...	...	...	...	6990	...	...
1437	93·33	6	— 68 31 45·38	45·42	— 19·874	+ 0·08	— 0·030	+0·10	...	286	1623	2254	...	6992	885	620
1438	89·36	4	— 19 26 59·99	60·14	— 19·872	+ 0·07	...	...	...	...	...	...	...	...	...	...
1439	87·21	6	— 31 34 10·37	10·58	— 19·869	+ 0·07	...	...	...	...	...	...	...	6995	...	...
1440	90·33	6	— 5 13 31·76	32·14	— 19·868	+ 0·07	— 0·019	+0·01	...	...	...	2255	496	...	...	...
1441	90·11	7	— 19 28 23·41	23·60	— 19·865	+ 0·07	...	...	...	...	...	...	...	...	...	...
1442	91·04	6	+ 17 41 44·34	43·88	— 19·864	+ 0·07	— 0·022	+0·02	...	...	...	...	...	...	...	...
1443	90·85	6	— 47 56 7·96	8·12	— 19·862	+ 0·07	...	...	...	287	1624	2256	...	6998	886	622
1444	91·44	1	— 19 31 58·27	58·56	— 19·858	+ 0·07	...	...	...	...	...	...	...	...	...	...
1445	88·34	6	— 74 45 54·05	54·01	— 19·855	+ 0·09	...	...	...	...	1625	...	...	7002	888	...
1446	91·39	8	+ 41 28 48·27	47·46	— 19·840	+ 0·07	— 0·021	+0·03	...	...	...	...	...	...	...	...
1447†	89·87	15	— 48 21 19·75	19·94	— 19·814	+ 0·08	— 0·020	0·00	229*	288	1633	2266	...	7022	890	628
1448†	88·55	11	— 0 50 42·89	43·17	— 19·805	+ 0·08	+ 0·015	+0·02	230	289	1637	2268	499	7027	891	629*
1449†	88·00	1	— 0 50 46·80	46·95	— 19·805	+ 0·08	+ 0·015	+0·03	230	289	1637	2269	500	7028	...	630
1450	92·17	37	— 89 11 43·53	43·54	— 19·782	+ 0·45	0·00*	0·00	...	...	...	2253	497	7017	893	*711*
1451	88·10	11	— 27 43 12·36	12·54	— 19·776	+ 0·08	— 0·050	—0·09	...	...	1644	2276	...	7043	...	...
1452	89·79	5	— 20 28 50·57	50·72	— 19·759	+ 0·09	...	...	...	...	...	...	...	...	...	...
1453†	91·99	12	— 67 30 20·62	20·73	— 19·755	+ 0·10	— 0·014	+0·03	...	290	1646	2278	505	7053	894	634
1454	89·92	4	+ 46 2 31·56	30·62	— 19·749	+ 0·08	...	...	...	...	...	...	...	...	...	...
1455	87·93	4	— 32 42 46·85	47·07	— 19·736	+ 0·09	...	...	...	...	...	...	...	7058	...	...
1456	93·94	12	— 80 6 5·92	5·96	— 19·732	+ 0·13	...	...	...	...	...	...	...	7059	...	...
1457	92·09	11	— 59 5 14·28	14·39	— 19·728	+ 0·10	— 0·025	+0·05	231*	291	1650	...	506	7062	896	635
1458*	90·59	117	— 84 31 31·88	31·95	— 19·693	+ 0·17	+ 0·029†	—0·02	...	...	1652	2281	507	7073	898	637*
1459*	88·97	12	— 33 23 57·90	58·10	— 19·672	+ 0·10	— 0·034	—0·04	...	...	1658	2289	...	7084	...	639
1460	89·51	8	— 26 8 26·95	27·15	— 19·649	+ 0·10	...	...	...	...	...	...	...	7093	...	...
1461	91·42	6	+ 28 8 21·66	21·13	— 19·645	+ 0·09	— 0·018	+0·03	...	...	...	...	...	7094	900	...
1462	88·23	16	— 59 43 49·38	49·41	— 19·636	+ 0·11	...	...	...	...	1668	...	...	7099	...	...
1463	95·52	3	— 38 47 32·35	32·46	— 19·629	+ 0·11	...	...	...	...	...	...	...	7103	...	...
1464*	92·65	12	— 39 34 49·38	49·54	— 19·627	+ 0·11	— 0·028	+0·07	...	292	1665	2294	510	7105	...	642
1465	89·33	1	— 59 44 16·08	16·14	— 19·625	+ 0·11	...	...	...	...	...	...	...	...	...	...
1466	91·40	7	— 58 32 55·97	56·21	— 19·613	+ 0·11	...	...	...	...	1670	2297	...	7111	...	...
1467	91·71	6	— 41 41 37·70	37·91	— 19·597	+ 0·11	...	...	...	...	...	...	...	7116	...	...
1468	88·42	4	— 29 28 23·57	23·83	— 19·585	+ 0·11	...	...	...	...	1678	...	...	7120	...	...
1469	91·06	6	+ 12 5 33·90	33·59	— 19·578	+ 0·10	...	...	...	...	...	...	...	...	...	...
1470	88·59	41	+ 3 59 43·36	43·04	— 19·576	+ 0·10	— 0·047	—0·07	...	...	1679	2307	514	7123	902	*722*

1447. Binary; $3^m{\cdot}2$, $3^m{\cdot}2$. Observed as one mass.
1448, 1449. Binary.
1453. Close binary; $3^m{\cdot}9$, $4^m{\cdot}2$. Observed as one mass.
1458. Proper Motion determined for this Catalogne.

No.	Bradley or Lacaille.	Piazzi. 1800.	B.A.C. 1850.	C.G.A. 1875.	Star's Name.	Mag.	Mean Date. 1800+	No. of Obs.	Mean R.A. 1890·0.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_a.	Corr. for μ_a to 1890·0.
									h m s	s	s	s	s
1471	5332	...	4343	17601	Lacaille 5332	6·7	87·18	4	12 50 35·269	+3·2144	+ 0·020	...	...
1472	1725	226	4346	...	12 Canum Venaticûm.....	3·1	...	...	12 50 53	+2·8349	— 0·015	—0·0220	...
1473	...	...	...	17625	Lalande 24119.....	6·9*	88·20	19	12 51 35·617	+3·1161	+ 0·009	...	...
1474†	5349	...	4353	17693	Muscæ.....δ	3·6	89·14	12	12 54 42·670	+3·9883	+ 0·139	+0·0488	+ 0·042
1475	5364	...	...	17723	Lacaille 5364	7	95·53	1	12 55 41·378	+3·2162	+ 0·019	...	...
1476	5325	...	...	17696	Lacaille 5325	7·1	90·64	29	12 55 53·229	+9·1668	+ 2·719	...	...
1477	5367	...	...	17731	Lacaille 5367	6·9*	87·89	4	12 56 24·944	+3·2435	+ 0·022	...	...
1478	1735	249	4367	...	47 Virginis .....ε	3·0	89·33	24	12 56 42·075	+3·0056	— 0·001	—0·0192	— 0·013
1479	5380	...	4374	17783	Lacaille 5380	7·0	95·52	3	12 58 36·416	+3·3624	+ 0·034	...	...
1480	5387	...	...	17796	Lacaille 5387	7·7*	88·42	10	12 59 12·669	+3·2535	+ 0·022	...	...
1481	5369	...	4375	17795	Lacaille 5369	6·6*	92·24	10	12 59 30·684	+4·6679	+ 0·278	...	...
1482†	5396	...	4379	17826	Centauri .....ζ²	4·4	89·78	6	13 0 29·409	+3·4782	+ 0·047	—0·0051	— 0·001
1483†	5398	...	4385	17844	Lacaille 5398	5·9	91·58	14	13 1 6·258	+3·5376	+ 0·054	—0·008	+ 0·013
1484	1742	272	4391	17864	49 Virginis	5·2	88·42	4	13 2 8·030	+3·1366	+ 0·011	—0·0092	0·000
1485	...	...	...	17866	Lalande 24372.....	9*	90·04	6	13 2 11·707	+3·2248	+ 0·019	...	...
1486	5407	...	...	17868	Lacaille 5407	7¼*	87·40	5	13 2 14·929	+3·3296	+ 0·029	...	...
1487*	1747	281	4401	17912	51 Virginis .....θ	4·4	90·68	19	13 4 15·235	+3·1045	+ 0·008	—0·0043	+ 0·003
1488	...	...	...	...	Lalande 24444.....	7·5†	89·92	6	13 4 24·705	+3·2302	+ 0·019	...	...
1489	...	...	...	...	B.D. — 10° No. 3624 ...	8·2†	88·41	4	13 4 46·050	+3·1398	+ 0·011	...	...
1490	5420	...	4405	17925	Lacaille 5420	5·8	95·53	3	13 4 52·845	+3·4046	+ 0·036	...	...
1491	5406	...	4398	17922	Lacaille 5406	6·3*	86·71	18	13 5 9·552	+4·8162	+ 0·289	—0·004*	— 0·013
1492†	5418	...	4412	17936	Lacaille 5418	4·7	91·93	9	13 5 25·697	+3·7074	+ 0·073	—0·010	+ 0·019
1493	...	...	...	...	B.D. — 9° No. 3641 ...	8·0†	88·44	4	13 5 35·380	+3·1386	+ 0·011	...	...
1494	...	...	...	...	Lalande 24499.....	6·8†	93·65	6	13 5 38·178	+2·8092	— 0·011	...	...
1495*	1752	9	4418	17955	53 Virginis	5·1	90·42	1	13 6 12·270	+3·1788	+ 0·014	+0·0039	— 0·002
1496	1755	15	4421	...	43 Comæ	4·4	89·62	8	13 6 44·448	+2·8647	— 0·008	—0·0605	— 0·023
1497	5435	...	4419	17963	Lacaille 5435	6·0	95·53	3	13 6 52·014	+3·5326	+ 0·050	...	...
1498	5437	...	4422	17977	Lacaille 5437	5·0	92·87	6	13 7 26·672	+3·7056	+ 0·071	—0·040†	+ 0·115
1499	5430	...	...	17980	Lacaille 5430	7·5	93·22	6	13 7 35·285	+4·1339	+ 0·137	...	...
1500†	5433	...	4426	17989	Muscæ .....η	4·9	94·38	10	13 7 47·971	+4·0047	+ 0·115	—0·004	+ 0·018
1501	...	...	...	...	Lalande 24553.....	6·8	90·40	6	13 7 51·358	+2·9358	— 0·004	...	...
1502	...	...	...	...	B.D. — 0° No. 2670.....	9·5†	87·46	2	13 8 1·650	+3·0762	+ 0·006	...	...
1503	...	21	4431	...	Piazzi XIII. 21	7·0†	90·82	5	13 8 21·276	+3·0585	+ 0·004	—0·005	+ 0·004
1504	5454	...	...	18011	Lacaille 5454	6·9*	87·24	5	13 8 30·065	+3·2453	+ 0·019	...	...
1505	...	27	4433	...	Piazzi XIII. 27	5·0	...	...	13 8 44	+2·7324	— 0·013	...	...

1472. α Canum Venaticûm in B.A.C.
1496. β Comæ in B.A.C.

1484. g Virginis in B.A.C.

No.	Mean Date. 1800+	No. of Obs.	Mean Dec. 1890·0.	Sec. of Final Dec.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_δ.	Corr. for μ_δ to 1890·0.	Fallows and Henderson.	Johnson.	Cape Catalogues. 1840.	1850.	1860.	1880.	1885.	Melbourne, 1870 and 1880.
			° ′ ″	″	″	″	″	″								
1471	87·18	4	— 25 51 48·95	49·19	— 19·567	+ 0·11	...	...	...	...	...	2308	...	7128	...	...
1472*	92·50	12	+ 38 54 45·87	45·23	— 19·561	+ 0·10	+ 0·066	—0·17	*167*	...	1682	...	515	7132	903	647*
1473	88·20	19	— 8 18 55·52	55·69	— 19·547	+ 0·11	...	...	...	...	...	...	...	...	...	...
1474	89·39	12	— 70 57 18·93	19·02	— 19·484	+ 0·15	— 0·026	—0·02	...	294	1684	2312	517	7160	905	649
1475	95·53	1	— 24 4 22·94	23·08	— 19·463	+ 0·12	...	...	...	...	...	...	...	7173	...	...
1476	89·86	39	— 86 58 5·71	5·73	— 19·459	+ 0·33	...	...	...	...	...	...	...	7167	906	*725*
1477	87·79	5	— 27 41 40·40	40·59	— 19·448	+ 0·12	...	...	...	...	...	...	...	7176	...	...
1478	90·30	43	+ 11 33 1·97	1·67	— 19·442	+ 0·12	+ 0·029	—0·01	...	...	...	...	...	7178	907	*727*
1479	95·52	3	— 40 36 19·10	19·20	— 19·401	+ 0·13	...	...	...	...	1692	2325	...	7193	...	...
1480	88·42	10	— 27 55 37·36	37·57	— 19·387	+ 0·13	...	...	...	...	...	...	...	7196	...	...
1481	91·62	12	— 77 51 22·73	22·92	— 19·381	+ 0·18	...	...	...	...	1691	...	...	7197	...	...
1482	89·78	6	— 49 19 0·57	0·75	— 19·358	+ 0·14	— 0·025	—0·01	...	295	1695	2328	522	7207	...	653
1483	91·58	14	— 52 52 13·97	14·11	— 19·345	+ 0·14	— 0·03	+0·05	...	...	1700	2333	...	7214	...	...
1484*	88·42	4	— 10 9 7·83	7·96	— 19·321	+ 0·13	+ 0·008	+0·01	...	...	1702	2335	523	...	...	...
1485	90·04	6	— 23 0 2·14	2·34	— 19·319	+ 0·13	...	...	...	...	...	...	...	...	...	...
1486	87·40	5	— 35 38 12·19	12·38	— 19·318	+ 0·14	...	...	...	...	...	...	...	7220	...	...
1487	90·00	29	— 4 57 5·52	5·79	— 19·270	+ 0·13	— 0·037	0·00	...	297	1707	2341	525	7228	913	655*
1488	89·92	6	— 23 2 18·24	18·38	— 19·266	+ 0·14	...	...	...	...	...	...	...	...	...	...
1489	88·41	4	— 10 13 41·71	41·84	— 19·258	+ 0·14	...	...	...	...	...	...	...	...	...	...
1490	95·53	3	— 41 38 47·31	47·42	— 19·254	+ 0·15	...	...	...	...	1709	2344	...	7232	...	...
1491	86·87	25	— 77 51 46·19	46·31	— 19·248	+ 0·21	— 0·08*	—0·25	...	...	1705	...	...	7233	914	...
1492	91·93	9	— 59 20 5·31	5·45	— 19·241	+ 0·16	— 0·03	+0·06	...	...	1712	2347	...	7238	...	...
1493	88·44	4	— 9 55 44·89	45·02	— 19·237	+ 0·14	...	...	...	...	...	...	...	...	...	...
1494	93·65	6	+ 34 53 14·12	13·64	— 19·236	+ 0·12	...	...	...	...	...	...	...	...	...	...
1495	90·42	1	— 15 36 18·07	18·26	— 19·222	+ 0·14	— 0·279	+0·12	...	298	1715	2350	527	...	915	*732*
1496*	89·62	8	+ 28 26 9·25	8·84	— 19·209	+ 0·13	+ 0·897	+0·34	...	...	1721	...	...	...	916	...
1497	95·53	3	— 50 6 54·61	54·70	— 19·205	+ 0·15	...	...	...	...	1717	...	...	7247	...	...
1498*	92·87	6	— 58 30 53·96	54·11	— 19·191	+ 0·16	— 0·20†	+0·57	...	...	1720	2351	...	7253	...	...
1499	93·22	6	— 69 53 40·79	40·85	— 19·187	+ 0·18	...	...	...	...	...	...	...	7254	...	...
1500	94·38	10	— 67 18 40·35	40·41	— 19·182	+ 0·18	— 0·02	+0·09	...	...	1723	2353	528	7259	...	663
1501	90·40	6	+ 19 18 43·28	42·88	— 19·181	+ 0·13	...	...	...	...	...	...	...	...	...	...
1502	87·45	4	— 0 32 10·45	10·74	— 19·176	+ 0·14	...	...	...	...	...	...	...	...	...	...
1503	90·10	6	+ 2 2 27·66	27·38	— 19·168	+ 0·14	— 0·03	0·00	...	...	1726	...	...	...	...	...
1504	87·26	6	— 23 42 5·59	5·85	— 19·164	+ 0·15	...	...	...	...	...	...	...	7266	...	...
1505	92·86	8	+ 40 44 8·08	7·42	— 19·158	+ 0·13	...	...	...	...	...	...	...	...	...	...

1498. Proper Motion from *Cincinnati Publications*, No. 12.

No.	Bradley or Lacaille.	Piazzi. 1800.	B.A.C. 1850.	C.G.A. 1875.	Star's Name.	Mag.	Mean Date. 1800+	No. of Obs.	Mean R.A. 1890·0.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_α.	Corr. for μ_α to 1890·0.
									h m s	s	s	s	s
1506	...	...	...	...	B.D. — 10° No. 3634 ...	9·6†	88·44	4	13 8 58·630	+3·1457	+ 0·011	...	...
1507	...	...	...	...	W.B. XIII. 111	8·7†	87·44	3	13 9 42·030	+3·0806	+ 0·006	...	...
1508	...	...	...	...	Lalande 24606.....	8·7†	88·44	4	13 10 10·320	+3·1483	+ 0·011	...	...
1509	5456	...	...	18050	Lacaille 5456	6·8*	92·86	6	13 10 20·880	+4·0679	+ 0·121	...	...
1510†	5466	31	4437	18060	Centauri.....r	5·2	90·55	9	13 10 46·558	+3·3159	+ 0·025	+0·0028	— 0·002
1511†	5464	...	...	18064	Lacaille 5464	5·9	88·27	11	13 10 51·220	+3·4571	+ 0·039	—0·006	— 0·010
1512	...	...	...	...	W.B. XIII. 138	8·7†	88·45	3	13 11 3·740	+3·1532	+ 0·012	...	...
1513	...	...	...	18085	Lalande 24650.....	6·9*	88·47	4	13 11 35·120	+3·1516	+ 0·011	...	...
1514	...	...	...	...	Lalande 24658.....	8·8†	87·43	2	13 11 48·240	+3·0804	+ 0·006	...	...
1515	...	...	...	18095	Lalande 24660.....	6·4*	89·02	6	13 11 52·008	+3·0732	+ 0·006	...	...
1516	5472	...	4443	18093	Lacaille 5472	6·7*	94·32	4	13 11 58·536	+3·5771	+ 0·052	...	...
1517	...	...	...	...	B.D. — 1° No. 2796 ...	9·4†	87·45	2	13 12 24·210	+3·0853	+ 0·007	...	...
1518	1765	48	4451	...	20 Canum Venaticûm.....	4·7	87·35	1	13 12 36·601	+2·7086	— 0·013	—0·0129	— 0·034
1519	1763	44	4449	18112	61 Virginis	4·8	91·75	12	13 12 38·880	+3·2055	+ 0·015	—0·0762	+ 0·133
1520*	1764	45	4450	18121	46 Hydræ .....γ	3·4	88·00	2	13 12 56·545	+3·2466	+ 0·019	+0·0035	+ 0·007
1521	...	...	...	...	Lalande 24689.....	7·5†	88·44	4	13 13 2·240	+3·1572	+ 0·012	...	...
1522	5483	...	...	18140	Lacaille 5483	6·2	95·52	3	13 13 59·332	+3·6832	+ 0·062	...	...
1523†	5491	53	4458	18149	Centauri .....t	3·0	91·81	11	13 14 24·754	+3·3839	+ 0·030	—0·0305	+ 0·055
1524	...	...	...	...	B.D. — 11° No. 3493 ...	9·2†	88·44	4	13 14 37·570	+3·1617	+ 0·012	...	...
1525	...	...	...	...	Lalande 24760.....	7·2†	87·51	1	13 15 6·231	+2·7273	— 0·012	—0·031†	— 0·077
1526	...	...	...	...	C.P.D. — 25° No. 5161.	9·3‡	90·43	5	13 16 0·960	+3·2850	+ 0·022	...	...
1527	...	62	4471	18196	Piazzi XIII. 62	7¼*	88·41	4	13 16 19·270	+3·1654	+ 0·012	0·000	0·000
1528	5510	...	...	18201	Lacaille 5510	7·2	87·03	9	13 16 26·545	+3·2790	+ 0·021	...	...
1529	...	...	...	...	B.D. — 2° No. 3677 ...	9·3†	87·46	2	13 17 14·980	+3·0907	+ 0·007	...	...
1530	5452	...	4460	18212	Lacaille 5452	7·2	94·89	13	13 18 17·425	+8·4677	+ 1·534	...	...
1531	5524	...	...	18249	Lacaille 5524	8*	87·11	6	13 18 35·045	+3·3764	+ 0·029	...	...
1532*	1774	75	4480	18262	67 Virginis.....α	1·2	90·06	34	13 19 23·829	+3·1573	+ 0·012	—0·0044	0·000
1533	5444	...	...	18240	Lacaille 5444	8·0	95·62	12	13 19 44·951	+9·8627	+ 2·270	...	...
1534	...	...	...	18276	C.G.A. 18276	8*	90·42	3	13 20 3·090	+3·2960	+ 0·022	...	...
1535	1775	80	4492	18298	68 Virginis i	5·5	87·74	10	13 20 54·499	+3·1719	+ 0·012	—0·0121	— 0·027
1536	5547	...	...	18307	Lacaille 5547	7·3	91·56	6	13 21 27·560	+3·7420	+ 0·064	...	...
1537	...	...	...	...	W.B. XIII. 315	9·0†	88·43	4	13 21 38·630	+3·1750	+ 0·013	...	...
1538	...	...	...	...	B.D. — 12° No. 3819 ...	9·5†	88·44	4	13 21 41·190	+3·1768	+ 0·013	...	...
1539	5552	...	4495	18332	Centauri .....K	5·3	94·30	4	13 22 40·966	+3·6469	+ 0·052	...	...
1540	5482	...	4483	18321	Octantis .....κ	5·7	91·08	52	13 23 14·338	+8·7539	+ 1·573	—0·076†	+ 0·086

1510, 1539. B.A.C. gives no letter.

1520. Fundamental star for Southern Zones.

No.	Mean Date. 1800+	No. of Obs.	Mean Dec. 1890·0.	Sec. of Final Dec.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_δ.	Corr. for μ_δ to 1890·0.	Fallows and Henderson	Johnson.	Cape Catalogues. 1840.	1850.	1860.	1880.	1885.	Melbourne, 1870 and 1880.
			° ′ ″	″	″	″	″	″								
1506	88·42	5	— 10 27 52·33	52·46	— 19·152	+ 0·14	...	...	...	...	...	...	...	...	...	...
1507	87·44	4	— 1 9 50·29	50·58	— 19·133	+ 0·14	...	...	...	...	...	...	...	...	...	...
1508	88·43	3	— 10 39 28·25	28·37	— 19·120	+ 0·15	...	...	...	...	...	...	...	...	...	...
1509	92·86	6	— 67 54 52·42	52·54	— 19·116	+ 0·19	...	...	...	...	...	...	...	7278	...	...
1510*	90·55	9	— 30 55 25·65	25·80	— 19·104	+ 0·16	— 0·060	+0·03	...	...	1728	2362	...	7280	918	...
1511	88·27	11	— 43 23 53·82	54·04	— 19·102	+ 0·16	— 0·04	—0·07	...	...	...	...	...	7282	...	...
1512	88·45	3	— 11 11 21·75	21·88	— 19·097	+ 0·15	...	...	...	...	...	...	...	...	...	...
1513	88·47	4	— 10 54 11·98	12·10	— 19·083	+ 0·15	...	...	...	...	...	...	...	...	...	...
1514	87·42	4	— 1 6 15·24	15·53	— 19·077	+ 0·15	...	...	...	...	...	...	...	...	...	...
1515	89·02	6	— 0 5 44·11	44·32	— 19·075	+ 0·15	...	...	...	...	...	...	...	...	...	...
1516	94·32	4	— 50 42 19·90	20·01	— 19·072	+ 0·17	...	...	...	...	...	2365	...	7290	...	...
1517	87·45	4	— 1 45 53·25	53·54	— 19·061	+ 0·15	...	...	...	...	...	...	...	...	...	...
1518	92·52	12	+ 41 9 6·90	6·23	— 19·055	+ 0·13	+ 0·021	—0·05	...	...	...	...	...	...	920	...
1519	91·69	13	— 17 41 59·00	59·21	— 19·054	+ 0·15	— 1·055	+1·78	...	299	...	...	...	7295	...	...
1520*	88·00	2	— 22 35 27·17	27·35	— 19·046	+ 0·16	— 0·038	—0·08	...	300	...	2368	...	...	921	*735*
1521	88·44	4	— 11 26 10·13	10·26	— 19·043	+ 0·15	...	...	...	...	...	...	...	...	...	...
1522	95·52	3	— 55 13 22·37	22·45	— 19·016	+ 0·18	...	...	...	...	...	...	...	7303	...	...
1523	92·02	12	— 36 7 54·71	54·87	— 19·005	+ 0·17	— 0·094	+0·19	235*	301	1732	2371	...	7306	922	668
1524	88·42	5	— 11 47 18·13	18·26	— 18·999	+ 0·16	...	...	...	...	...	...	...	...	...	...
1525*	90·77	6	+ 38 44 20·43	19·73	— 18·986	+ 0·14	— 0·09†	+0·07	...	...	...	...	...	...	...	...
1526*	90·43	5	— 26 1 24·68	24·84	— 18·960	+ 0·16	...	...	...	...	...	...	...	...	...	...
1527	88·41	4	— 12 0 11·53	11·66	— 18·951	+ 0·16	0·00	0·00	...	...	...	2378	...	...	...	...
1528	87·03	9	— 25 15 53·99	54·28	— 18·948	+ 0·16	...	...	...	...	...	...	...	7329	...	...
1529	87·44	4	— 2 21 14·78	15·06	— 18·925	+ 0·16	...	...	...	...	...	...	...	...	...	...
1530	94·89	13	— 85 15 17·66	17·70	— 18·894	+ 0·42	...	...	...	...	...	2373	531	7336	924	669
1531	87·11	6	— 34 3 41·29	41·52	— 18·886	+ 0·18	...	...	...	...	...	...	...	7346	...	...
1532	89·42	40	— 10 35 12·93	13·17	— 18·861	+ 0·16	— 0·018	—0·01	237*	302	1742	2386	535	7352	926	672*
1533	95·62	12	— 86 9 31·72	31·73	— 18·850	+ 0·50	...	...	...	...	...	...	...	7349	...	...
1534	90·42	3	— 26 1 57·03	57·20	— 18·842	+ 0·17	...	...	...	...	...	...	...	...	...	...
1535	87·74	10	— 12 8 5·84	6·05	— 18·816	+ 0·17	— 0·023	—0·05	...	303	...	2392	...	7371	...	...
1536	91·56	6	— 55 12 29·48	29·58	— 18·799	+ 0·20	...	...	...	...	...	...	...	7375	...	...
1537	88·43	4	— 12 24 4·00	4·13	— 18·794	+ 0·17	...	...	...	...	...	...	...	...	...	...
1538	88·44	4	— 12 36 17·41	17·53	— 18·793	+ 0·17	...	...	...	...	...	...	...	...	...	...
1539*	94·30	4	— 50 35 41·32	41·42	— 18·762	+ 0·20	...	...	...	...	1745	2394	...	7390	...	...
1540*	90·19	136	— 85 13 17·20	17·25	— 18·744	+ 0·46	— 0·018†	0·00	...	...	1741	2388	536	7387	927	673*

1525. Proper Motion from *Cincinnati Publications*, No. 12.
1526. Magnitude from *Cordoba Durchmusterung*.
1540. Proper Motion determined for this Catalogue.

No.	Bradley or Lacaille.	Piazzi. 1800.	B.A.C. 1850.	C.G.A. 1875.	Star's Name.	Mag.	Mean Date. 1800+	No. of Obs.	Mean R.A. 1890·0.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_α.	Corr. for μ_α to 1890·0.
									h m s	s	s	s	s
1541	...	...	...	...	W.B. XIII. 356	8·7†	88·44	4	13 24 7·010	+ 3·1871	+ 0·013	...	...
1542	...	...	...	...	Lalande 24967.....	7·0†	88·38	6	13 24 25·730	+ 3·0170	+ 0·004	...	...
1543	...	...	...	18372	Lalande 24959.....	8½*	90·42	3	13 24 27·920	+ 3·2777	+ 0·020	...	...
1544†	5569	99	4507	18376	Centauri .....*d*	4·0	90·92	12	13 24 39·972	+ 3·4612	+ 0·034	—0·0041	+ 0·004
1545	...	...	...	18396	Lalande 24990.....	7·0*	88·46	4	13 25 22·940	+ 3·1838	+ 0·013	...	...
1546	5573	...	...	18398	Lacaille 5573	6·7	87·28	6	13 25 26·532	+ 3·3264	+ 0·023	...	...
1547	5519	...	...	18374	Lacaille 5519	7·4	94·04	10	13 25 34·310	+ 7·2522	+ 0·892	...	...
1548	...	...	4513	...	Lalande 25007.....	7·8†	93·70	8	13 25 39·340	+ 2·8469	— 0·004	...	...
1549	...	...	...	...	Gilliss P.Z. 9308.....	9·2‡	91·45	2	13 26 10·970	+18·721	+ 9·904	...	...
1550†	5580	...	...	18423	Lacaille 5580	5·6	93·74	12	13 26 28·266	+ 3·3358	+ 0·024	—0·011	+ 0·041
1551	...	...	4519	...	Lalande 25041.....	6·2	87·47	1	13 26 29·391	+ 2·6184	— 0·012	...	....
1552	...	...	...	...	B.D. — 12° No. 3834 ...	9·7†	88·44	4	13 26 56·570	+ 3·1880	+ 0·013	...	...
1553	5583	...	4522	18448	Lacaille 5583	7·0*	94·43	2	13 27 23·157	+ 3·4808	+ 0·035	...	...
1554	...	...	...	...	W.B. XIII. 422	8·9†	88·41	4	13 27 32·380	+ 3·1938	+ 0·014	...	...
1555	...	...	...	18473	Lalande 25075.....	7·0*	90·21	5	13 28 37·012	+ 3·1869	+ 0·013	...	...
1556	5593	...	...	18480	Lacaille 5593	6·9*	86·87	5	13 28 58·982	+ 3·3845	+ 0·027	...	...
1557*	1789	128	4532	...	79 Virginis .....ζ	3·5	90·41	22	13 29 5·272	+ 3·0728	+ 0·006	—0·0205	+ 0·008
1558	....	...	...	18494	W.B. XIII. 465	8¾*	87·46	2	13 29 42·080	+ 3·1115	+ 0·009	...	...
1559†	5577	...	4528	18485	Lacaille 5577	6·6	93·50	12	13 29 48·222	+ 4·9942	+ 0·240	—0·009	+ 0·031
1560	...	136	4536	...	Piazzi XIII. 136.....	5·0	...	...	13 29 53	+ 2·6769	— 0·009	+0·0043	...
1561	...	...	...	...	W.B. (2) XIII. 559 ...	7·3†	93·05	6	13 29 59·135	+ 2·9310	0·000	...	...
1562	...	...	...	18511	C.G.A. 18511	7¼*	90·42	1	13 30 42·100	+ 3·3232	+ 0·022	...	...
1563	5608	135	4541	18512	Lacaille 5608	6¼*	88·18	4	13 30 42·294	+ 3·3231	+ 0·022	—0·0114†	— 0·021
1564	5612	...	...	18530	Lacaille 5612	7*	90·79	12	13 31 31·235	+ 3·5439	+ 0·039	...	...
1565	...	...	...	...	B.D. — 13° No. 3733 ...	9·5†	88·44	4	13 31 34·570	+ 3·2007	+ 0·014	...	...
1566	...	...	...	...	Lalande 25168.....	7·8†	88·44	4	13 32 8·210	+ 3·2032	+ 0·014	...	...
1567	5592	...	...	18537	Lacaille 5592	7·0*	94·44	4	13 32 18·912	+ 4·9695	+ 0·228	...	...
1568	5623	146	4548	18554	Lacaille 5623	5·6	94·33	4	13 32 31·198	+ 3·3636	+ 0·025	...	...
1569	...	...	...	...	B.D. — 14° No. 3763 ...	9·2†	88·42	4	13 32 35·080	+ 3·2063	+ 0·014	...	...
1570	...	...	...	18500	C.G.A. 18500	8·7	95·33	20	13 32 45·665	+13·351	+ 4·125	...	...
1571†	5618	...	4549	18559	Centauri ..... ε	2·6	90·69	8	13 32 55·242	+ 3·7698	+ 0·059	—0·0049	+ 0·003
1572	5625	...	...	18568	Lacaille 5625	5·8	95·53	3	13 33 20·776	+ 3·5089	+ 0·035	...	...
1573	5636	...	...	18581	Lacaille 5636	7·6*	87·45	6	13 34 11·676	+ 3·4301	+ 0·029	...	...
1574	...	163	...	...	Piazzi XIII. 163.....	6·3	89·45	5	13 35 34·554	+ 2·7770	— 0·005	...	...
1575*	1796	162	4565	18613	82 Virginis.....*m*	5·3	89·00	2	13 35 50·290	+ 3·1502	+ 0·011	—0·0085	— 0·009

1544. B.A.C. gives no letter.

No.	Mean Date. 1800+	No. of Obs.	Mean Dec. 1890·0.	Sec. of Final Dec.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_δ.	Corr. for μ_δ to 1890·0.	Fallows and Henderson.	Johnson.	Cape Catalogues. 1840.	1850.	1860.	1880.	1885.	Melbourne, 1870 and 1880.
			° ′ ″	″	″	″	″	″								
1541	88·44	4	— 13 25 58·50	58·63	— 18·717	+ 0·17	...	...	...	...	...	...	...	...	...	...
1542	88·38	6	+ 6 34 49·45	49·17	— 18·707	+ 0·17	...	...	...	...	...	...	...	...	...	...
1543	90·42	3	— 23 4 50·18	50·37	— 18·706	+ 0·18	...	...	...	...	...	...	...	...	...	...
1544*	90·92	12	— 38 50 20·10	20·24	— 18·700	+ 0·19	— 0·013	+0·01	...	304	1749	2400	538	7405	...	677
1545	88·46	4	— 12 52 52·96	53·08	— 18·677	+ 0·18	...	...	...	...	...	...	...	...	...	...
1546	87·28	6	— 27 32 43·44	43·68	— 18·675	+ 0·18	...	...	...	...	...	...	...	7413	...	...
1547	94·04	12	— 83 20 43·72	43·73	— 18·671	+ 0·39	...	...	...	...	...	...	...	7408	...	...
1548	93·70	8	+ 24 48 17·44	17·08	— 18·669	+ 0·16	...	...	...	...	...	...	...	...	...	...
1549*	91·45	2	— 88 12 10·82	10·87	— 18·652	+ 1·01	...	...	...	...	...	...	...	...	...	...
1550	93·74	12	— 28 7 32·59	32·75	— 18·643	+ 0·19	— 0·04	+0·15	...	...	1754	...	...	7421	...	...
1551	91·75	6	+ 42 40 21·24	20·50	— 18·642	+ 0·15	...	...	...	...	...	...	...	...	...	...
1552	88·44	4	— 13 8 28·76	28·89	— 18·627	+ 0·18	...	...	...	...	...	...	...	...	...	...
1553	94·43	3	— 39 22 50·01	50·16	— 18·613	+ 0·20	...	...	...	...	...	2411	...	7431	...	...
1554	88·41	4	— 13 40 52·85	52·97	— 18·608	+ 0·18	...	...	...	...	...	...	...	...	...	...
1555	90·43	4	— 12 46 56·72	56·90	— 18·573	+ 0·18	...	...	...	...	...	...	...	...	...	...
1556	86·87	5	— 31 38 51·29	51·55	— 18·560	+ 0·19	...	...	...	...	...	...	...	7439	...	...
1557	89·67	33	— 0 1 59·66	59·93	— 18·557	+ 0·18	+ 0·056	+0·02	...	...	1760	2416	545	7441	932	681*
1558	87·44	3	— 4 22 12·35	12·63	— 18·537	+ 0·18	...	...	...	...	...	...	...	...	...	...
1559	92·81	19	— 75 7 19·88	20·03	— 18·533	+ 0·29	0·00	0·00	...	...	1757	2414	...	7444	...	...
1560	93·00	6	+ 37 44 46·93	46·35	— 18·531	+ 0·16	— 0·007	+0·02	...	...	...	...	...	...	933	...
1561	93·05	6	+ 15 27 24·79	24·49	— 18·527	+ 0·17	...	...	...	...	...	...	...	...	...	...
1562	90·42	1	— 25 56 10·98	11·15	— 18·503	+ 0·20	...	...	...	...	1768	...	...	7454	...	...
1563*	88·03	5	— 25 56 1·01	1·22	— 18·503	+ 0·20	0·000†	0·00	...	...	1767	2422	...	7455	...	...
1564	90·79	12	— 42 12 14·80	14·96	— 18·475	+ 0·21	...	...	...	...	...	...	...	7467	...	...
1565	88·44	4	— 13 51 10·37	10·49	— 18·473	+ 0·19	...	...	...	...	...	...	...	...	...	...
1566	88·44	4	— 14 1 54·60	54·72	— 18·454	+ 0·19	...	...	...	...	...	...	...	...	...	...
1567	94·45	6	— 74 33 24·28	24·31	— 18·448	+ 0·29	...	...	...	...	...	...	...	7470	...	...
1568	94·33	4	— 28 59 55·45	55·61	— 18·441	+ 0·20	...	...	...	...	1770	2425	...	7475	...	...
1569	88·42	4	— 14 16 41·65	41·77	— 18·439	+ 0·19	...	...	...	...	...	...	...	...	...	...
1570	95·15	27	— 87 4 5·18	5·19	— 18·433	+ 0·77	...	...	...	...	...	...	...	7461	...	...
1571	90·69	8	— 52 54 24·43	24·55	— 18·427	+ 0·23	— 0·031	+0·02	239*	305	1771	...	547	7478	935	683
1572	95·53	3	— 39 29 28·48	28·60	— 18·412	+ 0·21	...	...	...	...	...	...	...	7484	...	...
1573	87·45	6	— 33 48 0·17	0·41	— 18·383	+ 0·21	...	...	...	...	...	...	...	7488	...	...
1574	89·11	6	+ 28 37 19·08	18·69	— 18·334	+ 0·17	...	...	...	...	...	...	...	...	...	...
1575	89·00	2	— 8 8 52·01	52·18	— 18·325	+ 0·19	+ 0·046	+0·05	...	...	1777	2432	548	7506	937	746

1549. Magnitude from Cape observations.

1563. Proper Motion from *Bonn Observations*, Vol. VII.

No.	Bradley or Lacaille.	Piazzi. 1800.	B.A.C. 1850.	C.G.A. 1875.	Star's Name.	Mag.	Mean Date. 1800+	No. of Obs.	Mean R.A. 1890·0.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_a.	Corr. for μ_a to 1890·0.
									h m s	s	s	s	s
1576	5655	...	...	18632	Lacaille 5655	7·3*	87·28	6	13 36 47·609	+3·3841	+ 0·025	...	...
1577	...	...	...	...	Lalande 25284.....	8·2†	88·38	4	13 36 59·230	+3·2143	+ 0·014	...	...
1578	...	...	...	...	B.D. — 20° No. 3872 ...	8·9†	90·43	3	13 38 3·010	+3·2776	+ 0·018	...	...
1579	1801	176	4574	18673	83 Virginis	5·8	89·77	6	13 38 33·690	+3·2284	+ 0·015	—0·0002	0·000
1580†	1803*	178	4579	18696	1 Centauri.....*i*	4·3	92·43	10	13 39 26·129	+3·4303	+ 0·028	—0·0392	+ 0·095
1581	5670	180	4581	18698	Lacaille 5670	5·8	90·55	11	13 39 28·558	+3·3414	+ 0·022	...	...
1582†	5664	...	4580	18700	Centauri .....M	4·6	93·32	10	13 39 41·734	+3·7653	+ 0·055	+0·0011	— 0·004
1583	...	...	4596	...	Lalande 25424.....	5·8	90·45	1	13 41 33·290	+2·5628	— 0·009	...	...
1584	5633	...	...	18722	Lacaille 5633	5·8	86·59	17	13 41 39·650	+7·2181	+ 0·726	...	...
1585	1810	199	4597	...	4 Boötis.....*r*	4·5	88·25	4	13 42 2·145	+2·8854	— 0·001	—0·0346	— 0·061
1586	...	...	...	...	B.D. — 6° No. 3888 ...	9·8†	...	...	13 42 54	+3·1433	+ 0·010	...	...
1587	5683	197	4601	18772	Centauri.....*v*	3·5	93·45	8	13 42 54·407	+3·5794	+ 0·038	...	...
1588†	5684	198	4602	18773	Centauri.....*μ*	3·3	94·00	7	13 42 59·437	+3·5941	+ 0·039	—0·0051	+ 0·020
1589	1807*	202	4603	18779	2 Centauri.....*g*	4·3	93·78	6	13 43 4·370	+3·4630	+ 0·029	—0·0047	+ 0·018
1590	...	...	...	...	Lalande 25467.....	6·8†	94·32	6	13 43 42·530	+2·7560	— 0·005	...	...
1591*	1811	204	4608	18793	89 Virginis	5·2	87·67	12	13 43 53·702	+3·2581	+ 0·016	—0·0087	— 0·020
1592	...	206	4613	18797	Piazzi XIII. 206.....	7½*	90·42	3	13 44 11·770	+3·2900	+ 0·018	...	...
1593	...	213	4619	18812	Piazzi XIII. 213.....	8*	87·48	3	13 44 45·910	+3·1455	+ 0·010	...	...
1594	...	...	4621	...	Lalande 25490.....	7·2†	92·05	3	13 44 51·253	+2·8672	— 0·001	...	...
1595	5700	...	4616	18817	Centauri .....N	5·4	82·99	5	13 44 59·694	+3·8365	+ 0·058	...	...
1596	...	...	...	...	Lalande 25512.....	6·8†	...	...	13 45 32	+2·5164	— 0·009	...	...
1597	5712	...	4624	18839	Lacaille5712(asonemass)	6·7*	91·14	3	13 45 42·216	+3·4310	+ 0·027	...	...
1598	...	...	...	18843	Brisbane 4664.....	7·9	93·45	4	13 46 0·254	+3·4202	+ 0·026	..	...
1599	...	...	4632	...	Lalande 25538.....	4·9	93·56	4	13 46 56·328	+2·6516	— 0·006	...	...
1600	5729	...	...	18871	Lacaille 5729	6·3	95·53	3	13 47 28·596	+3·4920	+ 0·030	...	...
1601	1818	234	4637	...	7 Boötis	5·7	90·89	7	13 47 57·540	+2·8698	— 0·001	—0·0040	+ 0·004
1602	5739	229	...	18888	Lacaille 5739	7·2*	88·22	5	13 48 1·063	+3·3980	+ 0·024	...	...
1603†	5737	231	4638	18897	Centauri.....ζ	2·8	93·56	10	13 48 40·767	+3·7214	+ 0·047	—0·0090	+ 0·032
1604	5748	...	...	18905	Lacaille 5748	7*	94·34	4	13 49 4·357	+3·6135	+ 0·039	...	...
1605	1821	240	4648	...	8 Boötis.....*η*	2·9	90·47	15	13 49 26·798	+2·8615	— 0·001	—0·0049	+ 0·002
1606	5752	...	...	18919	Lacaille 5752	6·6*	92·76	6	13 49 30·272	+3·7102	+ 0·046	...	...
1607†	5733	...	4644	18920	Lacaille 5733	4·8	94·06	8	13 49 41·627	+4·2886	+ 0·101	—0·009	+ 0·037
1608	5758	...	...	18935	Lacaille 5758	7·3*	91·11	6	13 50 10·185	+3·5517	+ 0·034	...	...
1609†	5768	246	4653	18960	Centauri.....*φ*	4·0	90·38	12	13 51 35·107	+3·6272	+ 0·039	—0·0042	+ 0·002
1610	5755	...	...	18959	Lacaille 5755	7·7	93·35	6	13 51 46·484	+4·4163	+ 0·113	...	...

1582, 1595. B.A.C. gives no letter.

No.	Mean Date. 1800+	No. of Obs.	Mean Dec. 1890·0.	Sec. of Final Dec.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_δ.	Corr. for μ_δ to 1890·0.	Fallows and Henderson.	Johnson.	Cape Catalogues. 1840.	1850.	1860.	1880.	1885.	Melbourne, 1870 and 1880.
			° ′ ″	″	″	″	″	″								
1576	87·28	6	— 29 37 38·48	38·71	— 18·291	+ 0·21	...	...	...	...	...	...	...	7518	...	...
1577	88·38	4	— 14 28 45·42	45·54	— 18·284	+ 0·20	...	...	...	...	...	...	...	...	...	...
1578	90·43	3	— 20 17 36·82	37·00	— 18·246	+ 0·21	...	...	...	...	...	...	...	...	...	...
1579	89·77	6	— 15 37 32·35	32·52	— 18·227	+ 0·20	— 0·007	0·00	...	...	...	2436	549	...	...	...
1580	92·43	10	— 32 29 13·95	14·12	— 18·195	+ 0·22	— 0·154	+0·37	...	306	1781	2439	550	7536	...	688
1581	90·28	12	— 25 33 48·58	48·80	— 18·194	+ 0·21	...	...	...	...	1782	2441	...	7537	...	...
1582*	93·32	10	— 50 52 49·10	49·21	— 18·185	+ 0·24	— 0·032	+0·11	...	...	1780	2440	...	7538	...	...
1583	93·82	6	+ 41 38 25·88	25·24	— 18·116	+ 0·17	...	...	...	...	...	...	...	...	...	...
1584	86·93	32	— 82 7 13·58	13·66	— 18·112	+ 0·46	...	...	...	...	...	...	...	7546	939	...
1585	87·25	4	+ 18 0 19·54	19·18	— 18·098	+ 0·19	+ 0·040	+0·11	...	...	...	...	...	7553	940	*749*
1586	87·44	1	— 6 57 21·14	21·40	— 18·066	+ 0·21	...	...	...	...	...	...	...	...	...	...
1587	93·45	8	— 41 8 20·74	20·87	— 18·065	+ 0·23	...	...	...	307	1791	2453	...	7562	941	689
1588	94·00	7	— 41 55 30·67	30·81	— 18·062	+ 0·23	— 0·013	+0·05	...	308	1792	2454	554	7563	942	691
1589	93·78	6	— 33 54 4·07	4·23	— 18·059	+ 0·23	— 0·093	+0·35	...	309	1793	2455	555	7565	...	...
1590	94·32	6	+ 28 25 47·04	46·65	— 18·034	+ 0·18	...	...	...	...	...	...	...	...	...	...
1591	87·79	19	— 17 35 8·93	9·19	— 18·027	+ 0·22	— 0·033	—0·07	...	...	1794	2456	557	...	944	*751*
1592	90·42	3	— 20 19 21·90	22·09	— 18·016	+ 0·22	...	...	...	...	...	2459	...	...	...	...
1593	87·48	3	— 7 3 3·90	4·19	— 17·994	+ 0·21	...	...	...	...	...	2463	...	...	...	...
1594	93·26	6	+ 19 10 33·16	32·84	— 17·991	+ 0·19	...	...	...	...	...	...	...	...	...	...
1595*	93·23	6	— 52 15 55·98	56·09	— 17·985	+ 0·26	...	...	...	...	1797	2461	...	7579	...	...
1596	94·53	4	+ 43 6 13·46	12·75	— 17·965	+ 0·17	...	...	...	...	...	...	...	...	...	...
1597†	91·14	3	— 31 4 23·07	23·27	— 17·958	+ 0·23	...	...	...	...	1801	2466	...	7590	...	...
1598	92·14	6	— 30 14 26·12	26·29	— 17·946	+ 0·23	...	...	...	...	...	...	...	7593	...	...
1599	93·56	4	+ 34 59 21·50	20·97	— 17·909	+ 0·18	...	...	...	...	...	...	...	...	...	...
1600	95·53	3	— 34 46 11·71	11·83	— 17·887	+ 0·24	...	...	...	...	...	...	...	7609	...	...
1601	90·89	7	+ 18 28 30·34	30·02	— 17·869	+ 0·20	— 0·005	0·00	...	...	...	...	...	...	...	...
1602	88·22	5	— 28 12 2·73	2·98	— 17·867	+ 0·23	...	...	...	...	...	...	...	7618	...	...
1603	93·57	8	— 46 44 46·85	46·96	— 17·840	+ 0·25	— 0·043	+0·15	240*	312	1808	2474	558	7623	946	695
1604	94·34	4	— 41 27 15·67	15·80	— 17·825	+ 0·25	...	...	...	...	...	...	...	7630	...	...
1605	92·06	32	+ 18 56 57·12	56·76	— 17·809	+ 0·20	— 0·344	+0·71	*149*	...	1813	2481	559	7638	948	697*
1606	92·76	6	— 46 3 1·56	1·70	— 17·807	+ 0·26	...	...	...	...	...	...	...	7637	...	...
1607	94·06	8	— 63 8 48·90	48·99	— 17·800	+ 0·30	— 0·08	+0·32	...	...	1811	2478	...	7639	...	696
1608	91·11	6	— 37 46 46·00	46·17	— 17·780	+ 0·25	...	...	...	...	...	...	...	7642	...	...
1609	90·38	12	— 41 33 46·81	46·95	— 17·723	+ 0·26	— 0·031	+0·01	...	313	1815	2484	...	7655	949	699
1610	93·35	6	— 65 0 20·67	20·74	— 17·715	+ 0·31	...	...	...	...	...	...	...	7656	...	...

1597. $7^m·0$, $8^m·4$ 1″·5 130°. Seen as one star.

No.	Bradley or Lacaille.	Piazzi. 1800.	B.A.C. 1850.	C.G.A. 1875.	Star's Name.	Mag.	Mean Date. 1800+	No. of Obs.	Mean R.A. 1890·0.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_a.	Corr. for μ_a to 1890·0.
									h m s	s	s	s	s
1611	5770	249	4654	18968	Centauri .....v^1	4·1	91·10	6	13 51 53·187	+ 3·6837	+ 0·043	...	...
1612*	1825*	253	4657	18981	47 Hydræ	5·1	88·38	16	13 52 20·811	+ 3·3585	+ 0·021	— 0·0038	— 0·006
1613	...	...	...	...	B.D. — 14° No. 3845 ...	9·0†	90·44	4	13 53 42·960	+ 3·2409	+ 0·015	...	...
1614	1827*	262	4663	19005	48 Hydræ	5·9	87·46	5	13 53 50·553	+ 3·3624	+ 0·021	— 0·0161	— 0·041
1615	...	269	4665	19016	Piazzi XIII. 269	6·8*	90·28	6	13 54 7·320	+ 3·1061	+ 0·009	...	...
1616	5757	...	4660	19014	Apodis .....θ	Var.	86·55	13	13 54 37·661	+ 5·6953	+ 0·297	...	...
1617	5783	...	4667	19024	Lacaille 5783	6·7*	95·53	3	13 54 40·535	+ 3·6048	+ 0·036	...	...
1618*	1829	275	4672	...	93 Virginis .....τ	4·4	89·36	14	13 56 2·913	+ 3·0490	+ 0·006	— 0·0005	0·000
1619	5784	...	4669	19043	Centauri .....β	0·8	92·55	13	13 56 3·871	+ 4·1885	+ 0·084	— 0·0061	+ 0·016
1620	5788	274	4671	19046	Lacaille 5788	5·7	94·33	4	13 56 7·438	+ 3·4016	+ 0·023	...	...
1621	1830	282	4675	...	11 Boötis	6·1	90·80	10	13 56 11·215	+ 2·7285	— 0·003	— 0·0069	+ 0·006
1622	5790	...	...	19050	Lacaille 5790	7*	88·69	4	13 56 23·885	+ 3·3941	+ 0·023	...	...
1623	...	...	...	19077	Lalande 25795.....	6·3*	90·62	7	13 57 44·940	+ 3·3365	+ 0·019	...	...
1624	5796	...	...	19087	Lacaille 5796	6·9*	92·89	6	13 58 40·141	+ 4·1820	+ 0·082	...	...
1625	...	...	...	...	Cape (1880) 7714	*	87·70	4	14 0 4·318	+ 4·3711	+ 0·100	...	...
1626†	1832*	295	4685	19128	49 Hydræ .....π	3·5	90·36	10	14 0 6·423	+ 3·4010	+ 0·023	+ 0·0015	— 0·001
1627†	1831*	293	4686	19129	5 Centauri.....θ	2·2	92·50	10	14 0 12·439	+ 3·5558	+ 0·032	— 0·0459	+ 0·115
1628	5817	...	...	19138	Lacaille5817(asonemass)	6·9*	87·72	7	14 0 34·658	+ 3·8543	+ 0·053	...	...
1629	1834	299	4690	19152	95 Virginis	5·7	90·13	6	14 0 53·775	+ 3·1765	+ 0·012	— 0·0122	+ 0·002
1630	5804	...	...	19154	Lacaille 5804	6·1	92·88	6	14 1 21·493	+ 4·9061	+ 0·160	...	...
1631	...	...	...	...	Lalande 25926.....	6·8†	90·24	4	14 1 56·652	+ 2·5922	— 0·005	...	...
1632	...	309	...	...	Piazzi XIII. 309.....	7·0†	90·27	5	14 1 59·970	+ 2·6969	— 0·003	...	...
1633	5839	...	...	19212	Lacaille 5839	6·9*	89·44	6	14 4 25·683	+ 3·4967	+ 0·027	...	...
1634†	5792	...	4692	19197	Apodis .....η	5·0	87·79	5	14 4 27·241	+ 7·1969	+ 0·568	— 0·015	— 0·033
1635	...	...	...	...	W.B. XIV. 33	9·1†	87·48	3	14 4 46·849	+ 3·2086	+ 0·013	...	...
1636	5842	...	...	19225	Lacaille 5842	7¾*	87·43	5	14 4 57·103	+ 3·4610	+ 0·025	...	...
1637	1839	8	4706	...	12 Boötis.....d	4·8	91·08	12	14 5 22·929	+ 2·7391	— 0·002	— 0·0020	+ 0·002
1638	...	...	...	...	Lalande 26017.....	6·6†	92·96	7	14 5 56·233	+ 3·0496	+ 0·007	...	...
1639	5855	...	...	19250	Lacaille 5855	6·7*	94·32	4	14 6 11·138	+ 3·3816	+ 0·021	...	...
1640	1837*	9	4708	19253	50 Hydræ	5·2	88·92	4	14 6 27·932	+ 3·4257	+ 0·023	— 0·0019	— 0·002
1641	1840*	...	4711	19269	Bradley 1840	6·3	94·34	11	14 6 55·868	+ 3·4169	+ 0·023	— 0·005	+ 0·022
1642*	1842	14	4716	19272	98 Virginis .....κ	4·3	89·70	20	14 7 1·658	+ 3·1936	+ 0·012	— 0·0004	0·000
1643	...	...	...	19098	Brisbane 4614.....	8·1	91·65	23	14 7 6·746	+38·882	+31·382	...	...
1644	...	...	...	...	B.D. — 10° No. 3851 ...	9·6†	87·48	4	14 7 56·939	+ 3·2116	+ 0·013	...	...
1645	5846	...	4715	19280	Lacaille 5846	5·9	92·50	5	14 7 57·618	+ 4·6689	+ 0·123	...	...

1612. Fundamental star for Southern Zones.
1619. The separate observations are printed with those of α Centauri in Appendix II.

No.	Mean Date. 1800+	No. of Obs.	Mean Dec. 1890·0.	Sec. of Final Dec.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion, μ_δ.	Corr. for μ_δ to 1890·0.	Fallows and Henderson.	Johnson.	Cape Catalogues. 1840.	1850.	1860.	1880.	1885.	Melbourne, 1870 and 1880.
			° ′ ″	″	″	″	″	″								
1611	91·10	6	— 44 15 58·90	59·01	— 17·710	+ 0·26	...	...	...	314	1816	2485	...	7661	950	700
1612*	88·38	16	— 24 26 5·37	5·48	— 17·691	+ 0·24	— 0·039	—0·06	...	...	...	2487	...	7669	952	*756*
1613	90·44	4	— 14 49 11·32	11·48	— 17·635	+ 0·23	...	...	...	...	...	...	...	...	...	...
1614	87·46	6	— 24 28 22·31	22·53	— 17·630	+ 0·24	— 0·090	—0·23	...	...	...	2491	...	7678	...	...
1615	90·28	6	— 3 0 48·86	49·12	— 17·618	+ 0·22	...	...	...	...	...	2492	...	...	...	...
1616*	86·50	19	— 76 15 54·37	54·52	— 17·597	+ 0·41	...	...	...	...	...	2489	560	7679	955	702*
1617	95·53	3	— 39 41 20·13	20·24	— 17·595	+ 0·26	...	...	...	...	...	2494	...	7685	...	*758*
1618	89·84	25	+ 2 4 37·73	37·51	— 17·537	+ 0·22	— 0·033	—0·01	...	...	...	...	563	7692	957	704*
1619*	90·99	22	— 59 50 30·71	30·76	— 17·536	+ 0·30	— 0·049	+0·05	243*	315	1818	2496	562	7691	956	703*
1620	94·33	4	— 26 53 52·80	52·96	— 17·534	+ 0·25	...	...	...	...	1820	2498	...	7693	...	...
1621	91·22	9	+ 27 55 5·64	5·21	— 17·531	+ 0·20	+ 0·018	—0·02	...	...	...	...	...	...	958	...
1622	88·69	4	— 26 18 59·98	60·14	— 17·522	+ 0·25	...	...	...	...	...	...	...	7695	...	...
1623	90·64	6	— 21 53 33·18	33·36	— 17·464	+ 0·25	...	...	...	...	...	...	...	...	...	...
1624	92·89	6	— 59 11 19·44	19·51	— 17·424	+ 0·31	...	...	...	...	...	...	...	7703	...	...
1625*	87·70	4	— 62 45 8·98	9·08	— 17·364	+ 0·33	...	...	...	...	...	...	...	7714	...	...
1626	90·36	10	— 26 9 7·37	7·62	— 17·362	+ 0·26	— 0·146	+0·05	...	318	1825	2507	...	7718	959	...
1627†	92·50	10	— 35 49 43·49	43·62	— 17·357	+ 0·27	— 0·524	+1·31	245*	317	1826	2508	565	7719	960	712
1628†	87·72	7	— 49 20 45·31	45·47	— 17·341	+ 0·29	...	...	...	...	...	...	...	7723	...	...
1629	90·13	6	— 8 47 18·31	18·52	— 17·327	+ 0·24	+ 0·015	0·00	...	...	...	2511	...	...	961	...
1630	92·88	6	— 69 46 58·35	58·45	— 17·307	+ 0·37	...	...	...	...	1827	...	...	7729	...	...
1631	91·16	6	+ 35 18 12·18	11·69	— 17·281	+ 0·20	...	...	...	...	...	...	...	...	...	...
1632	89·80	6	+ 28 57 44·32	43·91	— 17·278	+ 0·21	...	...	...	...	...	...	...	...	...	...
1633	89·44	6	— 31 33 21·30	21·45	— 17·169	+ 0·27	...	...	...	...	...	...	...	7748	...	...
1634	87·66	6	— 80 29 27·15	27·16	— 17·168	+ 0·55	— 0·04	—0·09	...	...	1829	...	...	7745	...	714
1635	87·48	4	— 11 7 4·49	4·77	— 17·153	+ 0·25	...	...	...	...	...	...	...	...	969	...
1636	87·76	3	— 29 15 53·46	53·64	— 17·146	+ 0·27	...	...	...	...	...	...	...	7751	...	...
1637	91·08	12	+ 25 36 47·07	46·71	— 17·126	+ 0·22	— 0·081	+0·09	...	...	...	...	...	...	973	...
1638	92·96	7	+ 1 52 47·41	47·18	— 17·101	+ 0·24	...	...	...	...	...	...	...	...	...	...
1639	94·32	4	— 23 50 43·77	43·94	— 17·090	+ 0·26	...	...	...	...	...	...	...	7761	...	...
1640	88·92	4	— 26 44 34·42	34·55	— 17·077	+ 0·27	— 0·047	—0·05	...	320	1839	2523	...	7764	...	...
1641	94·35	12	— 26 5 42·67	42·84	— 17·055	+ 0·27	— 0·053	+0·23	...	...	...	2526	...	7769	...	...
1642	89·93	31	— 9 45 40·94	41·12	— 17·051	+ 0·25	+ 0·141	+0·01	...	321	1843	2528	568	7771	976	*766*
1643	90·79	28	— 88 52 25·20	25·24	— 17·046	+ 2·99	...	...	...	...	...	...	...	7731	968	*764*
1644	87·48	4	— 11 6 40·87	41·15	— 17·008	+ 0·26	...	...	...	...	...	...	...	...	...	...
1645	92·82	6	— 66 4 27·73	27·79	— 17·008	+ 0·37	...	...	...	...	...	2527	...	7775	...	719

1616. Limits of magnitude 5½–6½ in *Uranometria Argentina*.
1625. $7^m·8$ in Cape 1880; $9^m·2$ on 1896 September 23; $9\frac{1}{2}^m$ and 9^m in C.Z.
1627. Double according to Dunlop; not confirmed by later observers; single 1897·4. *Harvard Circular*, No. 18, mentions a companion.
1628. $7^m·4$, $8^m·1$ 1″·1 230° 1895·5. Seen as one star.

No.	Bradley or Lacaille.	Piazzi. 1800.	B.A.C. 1850.	C.G.A. 1875.	Star's Name.	Mag.	Mean Date. 1800+	No. of Obs.	Mean R.A. 1890·0.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_a.	Corr. for μ_a to 1890·0.
									h m s	s	s	s	s
1646	5801	...	...	19271	Lacaille 5801	6·8*	94·07	12	14 8 11·089	+ 8·3469	+ 0·840	...	...
1647	5869	...	4719	19299	Lacaille 5869	6·1	88·96	4	14 8 39·104	+ 3·4632	+ 0·025	...	...
1648	5863	...	...	19297	Lacaille 5863	6·7*	95·53	3	14 8 39·874	+ 3·7715	+ 0·044	...	...
1649	...	...	...	...	B.D. + 14° No. 2718 ...	6·8†	90·64	6	14 9 18·588	+ 2·8878	+ 0·002	...	...
1650	...	22	4722	19312	Piazzi XIV. 22	5·5	92·27	6	14 9 20·335	+ 3·3005	+ 0·017	—0·0027†	+ 0·006
1651	5802	...	4705	19284	Octantis .....δ	4·1	87·16	4	14 9 21·571	+ 9·0367	+ 1·033	— 0·053*	— 0·150
1652	...	...	...	...	W.B. (2) XIV. 166.....	7·0†	...	...	14 9 32	+ 2·5500	— 0·004	...	...
1653*	1846	28	4727	19324	99 Virginis .....ι	4·2	91·30	20	14 10 14·736	+ 3·1415	+ 0·010	—0·0031	+ 0·004
1654	1852	41	4741	...	19 Boötis.....λ	4·3	...	...	14 12 12	+ 2·3016	— 0·005	—0·0191	...
1655†	5881	33	4734	19354	Lupi.....ι	3·9	90·72	12	14 12 21·721	+ 3·8165	+ 0·045	—0·0015	+ 0·001
1656†	5879	...	4735	19358	Centauri.....v	4·4	92·61	11	14 12 38·670	+ 4·1518	+ 0·069	—0·006	+ 0·016
1657	...	34	...	19367	Piazzi XIV. 34.....	7·0*	87·44	7	14 12 47·579	+ 3·4395	+ 0·023	...	...
1658	...	...	...	19369	Brisbane 4857 .....*pr.*	7*	92·79	7	14 13 4·995	+ 3·6122	+ 0·032	...	...
1659	1850	37	4743	19372	100 Virginis .....λ	4·6	90·25	8	14 13 9·470	+ 3·2401	+ 0·014	—0·0025	+ 0·001
1660	1851	43	4748	19392	102 Virginis v	5·2	90·05	7	14 13 52·409	+ 3·0951	+ 0·009	—0·0088	0·000
1661†	5890	...	4754	19432	Lacaille 5890	5·9	92·29	11	14 15 59·566	+ 4·8946	+ 0·139	—0·008	+ 0·018
1662	5903	...	...	19437	Lacaille 5903	6·0	91·15	6	14 16 0·123	+ 3·9720	+ 0·055	...	...
1663†	5911	55	4759	19445	Centauri .....*a*	4·6	92·36	10	14 16 15·573	+ 3·6791	+ 0·036	—0·0054	+ 0·013
1664	5912	...	4760	19447	Lacaille 5912	7*	94·31	10	14 16 22·617	+ 3·7414	+ 0·039	...	...
1665	1857*	58	4763	19455	51 Hydræ	4·9	87·32	6	14 16 45·466	+ 3·4594	+ 0·025	—0·0161	— 0·043
1666	5923	...	...	19480	Lacaille 5923	7·0*	87·66	6	14 17 42·012	+ 3·5556	+ 0·028	...	...
1667†	5929	68	4767	19505	Lacaille 5929	5·4	90·92	12	14 18 32·017	+ 3·4157	+ 0·021	—0·0065	+ 0·006
1668	5933	...	...	19516	Lacaille 5933	7·0*	88·28	6	14 19 2·451	+ 3·4845	+ 0·025	...	...
1669	5928	66	4768	19514	Lupi .....r^1	4·6	91·66	9	14 19 4·614	+ 3·8275	+ 0·044	...	...
1670	5927	67	4770	19515	Lupi .....r^2	4·4	92·41	10	14 19 6·501	+ 3·8318	+ 0·044	...	...
1671	5930	...	4774	19519	Lacaille 5930	6·9*	94·52	4	14 19 18·987	+ 3·7556	+ 0·039	...	...
1672	...	...	...	...	B.D. — 6° No. 3996.....	9·5†	90·45	3	14 19 43·170	+ 3·1680	+ 0·011	...	...
1673	5936	...	...	19537	Lacaille 5936	6·8*	94·29	4	14 20 0·657	+ 3·7019	+ 0·036	...	...
1674	5902	...	...	19529	Lacaille 5902	7¼*	88·50	4	14 20 20·509	+ 6·1053	+ 0·294	...	...
1675	1864	86	4785	...	22 Boötis .....f	5·4	88·62	13	14 21 20·358	+ 2·7953	+ 0·001	—0·0057	— 0·008
1676†	1862*	82	4784	19577	52 Hydræ .....*seq.*	5·0	91·13	9	14 21 43·831	+ 3·5021	+ 0·025	—0·0046	+ 0·005
1677*	1865	90	4792	19591	105 Virginis .....*pr.* ϕ	4·9	87·96	2	14 22 32·155	+ 3·0961	+ 0·009	—0·0102	— 0·021
1678	1866	91	4795	19599	106 Virginis	5·9	88·63	6	14 22 53·610	+ 3·1601	+ 0·011	—0·0030	— 0·004
1679	5913	...	...	19607	Lacaille 5913	7¾*	87·77	3	14 24 6·722	+ 7·3199	+ 0·498	...	...
1680	5971	...	4800	19653	Lacaille 5971	7·9	87·44	4	14 24 41·551	+ 3·4376	+ 0·022	...	...

1656, 1663. B.A.C. gives no letter.
1665. *k* Hydræ in C.G.A.

1660. v^1 Virginis in B.A.C.
1676. *l* Hydræ in C.G.A.

No.	Mean Date. 1800+	No. of Obs.	Mean Dec. 1890·0.	Sec. of Final Dec.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_δ.	Corr. for μ_δ to 1890·0.	Fallows and Henderson.	Johnson.	Cape Catalogues. 1840.	1850.	1860.	1880.	1885.	Melbourne, 1870 and 1880.
			° ′ ″	″	″	″	″	″								
1646	94·00	13	− 82 20 25·38	25·45	−16·997	+ 0·65	...	...	...	...	...	...	...	7773	...	...
1647	88·96	4	− 28 46 3·07	3·23	−16·976	+ 0·28	...	...	...	...	1845	2530	...	7784	...	...
1648	95·53	3	− 44 28 59·92	60·02	−16·974	+ 0·30	...	...	...	...	...	...	...	7783	...	...
1649	90·64	6	+ 14 29 12·02	11·71	−16·945	+ 0·23	...	...	...	...	...	...	...	...	...	...
1650*	92·27	6	− 17 41 13·80	13·95	−16·944	+ 0·26	− 0·015†	+0·03	...	...	...	2532	570	...	...	...
1651	87·35	29	− 83 9 45·66	45·76	−16·943	+ 0·71	− 0·02*	−0·05	*11*	319	1836	2521	567	7780	978	718*
1652	93·41	6	+ 36 7 3·47	2·95	−16·934	+ 0·21	...	...	...	...	...	...	...	...	...	...
1653	90·91	22	− 5 28 31·40	31·62	−16·901	+ 0·25	− 0·417	+0·38	...	322	1847	2533	...	...	979	*768*
1654	91·43	7	+ 46 35 39·41	38·51	−16·808	+ 0·19	+ 0·151	−0·22	...	...	...	...	...	...	981	...
1655	90·72	12	− 45 32 59·81	59·88	−16·800	+ 0·31	− 0·014	+0·01	...	323	1850	2536	...	7806	982	723
1656*	92·61	11	− 55 52 44·91	45·01	−16·787	+ 0·34	− 0·04	+0·10	...	...	1851	2537	...	7809	...	...
1657	87·44	7	− 26 37 59·59	59·81	−16·780	+ 0·28	...	...	...	...	...	...	...	7813	...	...
1658†	92·79	7	− 36 21 1·17	1·29	−16·766	+ 0·29	...	...	...	...	...	...	...	7814	...	...
1659	90·25	8	− 12 51 51·75	51·95	−16·762	+ 0·27	+ 0·029	−0·01	246	324	1853	2540	573	7815	983	...
1660*	90·05	7	− 1 45 24·08	24·25	−16·728	+ 0·26	− 0·068	0·00	...	...	...	2544	...	...	...	...
1661	92·29	11	− 67 41 39·36	39·45	−16·625	+ 0·41	− 0·04	+0·09	...	...	1859	2547	...	7837	...	724
1662	91·15	6	− 50 16 10·91	11·01	−16·625	+ 0·33	...	...	...	...	...	...	...	7838	...	...
1663*	92·36	10	− 39 0 31·83	31·94	−16·612	+ 0·31	− 0·040	+0·09	...	326	1863	2550	...	7841	...	...
1664	94·33	12	− 41 45 2·67	2·79	−16·606	+ 0·31	...	...	...	...	...	...	...	7843	...	...
1665*	87·32	6	− 27 14 54·62	54·85	−16·587	+ 0·29	− 0·130	−0·35	...	...	1865	2553	...	7846	...	...
1666	87·66	6	− 32 35 11·08	11·26	−16·541	+ 0·30	...	...	...	...	...	...	...	7854	...	...
1667	90·92	12	− 24 18 23·93	24·06	−16·500	+ 0·29	− 0·033	+0·03	...	...	1866	2558	...	7861	...	727
1668	88·28	6	− 28 23 42·55	42·68	−16·475	+ 0·30	...	...	...	...	...	...	...	7865	...	...
1669	91·66	9	− 44 43 23·59	23·70	−16·473	+ 0·32	...	...	...	328	1867	2559	574	7864	989	729
1670	92·18	9	− 44 52 53·11	53·26	−16·471	+ 0·32	...	...	...	329	1868	2560	...	7866	...	730
1671	94·52	4	− 41 49 9·84	9·99	−16·461	+ 0·32	...	...	...	...	...	2562	...	7867	...	...
1672	90·45	3	− 7 6 43·00	43·18	−16·441	+ 0·27	...	...	...	...	...	...	...	...	...	...
1673	94·29	4	− 39 22 36·74	36·88	−16·426	+ 0·32	...	...	...	...	...	...	...	7873	...	...
1674	88·50	4	− 75 46 53·61	53·64	−16·409	+ 0·52	...	...	...	...	...	...	...	7872	...	...
1675	88·62	13	+ 19 43 18·18	17·84	−16·359	+ 0·24	+ 0·029	+0·04	...	...	...	...	...	7882	990	*774*
1676†	91·13	9	− 28 59 48·93	49·07	−16·339	+ 0·30	− 0·031	+0·04	...	...	1871	2568	575	7884	...	...
1677†	87·80	3	− 1 44 3·57	3·81	−16·298	+ 0·27	− 0·002	0·00	...	330	...	2573	...	...	992	*775*
1678	88·63	6	− 6 24 22·11	22·30	−16·280	+ 0·28	− 0·051	−0·07	...	...	...	2576	...	7891	...	...
1679	87·47	4	− 79 30 40·54	40·62	−16·217	+ 0·64	...	...	...	...	...	...	...	7895	...	...
1680	87·29	6	− 24 49 30·64	30·87	−16·187	+ 0·30	...	...	...	...	...	2579	...	7911	...	...

1650. Proper Motion from Newcomb's *Catalogue of* 1098 *Standard Stars.*
1658. $7^m·0$, $10^m·5$ 4″·0 131°. Fainter star not seen.
1676. $5^m·0$, $11^m·1$ 4″·1 278°. Fainter star not seen.
1677. $4^m·9$, $9^m·3$ 4″·5 112°. Brighter star observed.

No.	Bradley or Lacaille.	Piazzi. 1800.	B.A.C. 1850.	C.G.A. 1875.	Star's Name.	Mag.	Mean Date. 1800+	No. of Obs.	Mean R.A. 1890·0.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_α.	Corr. for μ_α to 1890·0.
									h m s	s	s	s	s
1681	...	...	...	...	Lalande 26514.....	Var.	89·49	3	14 25 18·707	+ 2·4231	— 0·003	...	...
1682	1869	112	4808	...	25 Boötis.....ρ	3·6	88·33	12	14 27 5·358	+ 2·5944	— 0·002	—0·0085	— 0·014
1683	5984	104	4807	19710	Lacaille 5984	6·9*	94·30	12	14 27 9·537	+ 3·7837	+ 0·039	...	...
1684	5974	...	4806	19709	Lacaille 5974	7*	90·28	5	14 27 15·588	+ 4·2637	+ 0·071	...	...
1685	1870	114	4810	...	26 Boötis	5·9	87·25	4	14 27 32·558	+ 2·7362	0·000	—0·0110	— 0·030
1686	1871	117	4812	...	27 Boötis.....γ	3·1	...	...	14 27 39	+ 2·4272	— 0·003	—0·0106	...
1687†	5993	109	4811	19737	Centauri.....η	2·5	90·96	10	14 28 31·370	+ 3·7908	+ 0·039	—0·0043	+ 0·004
1688	5981	...	...	19738	Lacaille 5981	8*	94·45	5	14 28 44·392	+ 4·5626	+ 0·094	...	...
1689	...	...	...	...	Gilliss P.Z. 10018	8·7‡	91·46	2	14 29 19·840	+29·239	+13·819	...	...
1690	6000	...	...	19757	Lacaille 6000	7½*	87·50	5	14 29 25·843	+ 3·6285	+ 0·030	...	...
1691	5957	...	...	19747	Lacaille 5957	6·7*	93·48	11	14 29 48·764	+ 6·4679	+ 0·325	...	...
1692	...	...	4827	...	Lalande 26640.....	6·2†	90·49	1	14 30 4·620	+ 2·1911	— 0·002	...	...
1693	...	127	4828	19808	Piazzi XIV. 127	6·6*	89·79	6	14 31 8·658	+ 3·2442	+ 0·014	—0·059	— 0·012
1694	6015	...	...	19812	Lacaille 6015	6·7*	94·25	4	14 31 27·607	+ 3·7209	+ 0·035	...	...
1695	6020	...	...	19818	Lacaille 6020	6·7	87·44	4	14 31 42·769	+ 3·6436	+ 0·030	...	...
1696†	6014	...	4831	19826	Centauri .....a^1	3½*	...	10	14 32 4	+ 4·5213	+ 0·088	—0·4873	*
1697†	6017	...	4832	19825	Centauri .....a^2	1*	...	15	14 32 6	+ 4·5211	+ 0·088	—0·4873	*
1698	6033	135	4838	19848	Lacaille 6033	6·9*	94·31	12	14 33 16·338	+ 3·4812	+ 0·023	...	...
1699†	6012	...	4835	19849	Circini .....α	3·4	91·83	6	14 33 37·285	+ 4·8132	+ 0·112	—0·0348	+ 0·064
1700	5882	...	...	19809	Lacaille 5882	7·8	95·66	12	14 34 4·786	+15·036	+ 2·954	...	...
1701†	5980	...	4833	19851	Apodis .....α	3·8	86·91	11	14 34 13·314	+ 7·1962	+ 0·432	—0·0102	— 0·032
1702†	6034	...	4839	19873	Lupi .....α	2·5	92·73	8	14 34 36·903	+ 3·9654	+ 0·047	—0·0033	+ 0·009
1703	1878	149	4843	...	33 Boötis	5·3	...	...	14 34 44	+ 2·2404	— 0·002	—0·0073	...
1704	5823	...	4790	19776	Octantis.....z	6·5	91·73	41	14 34 58·023	+23·891	+ 8·436	—0·184†	+ 0·318
1705	6048	141	4842	19890	Centauri.....b	4·2	94·52	6	14 35 7·617	+ 3·7108	+ 0·033	...	...
1706	6051	...	...	19892	Lacaille 6051 (as one mass)	7·2*	95·53	2	14 35 14·987	+ 3·5413	+ 0·025	...	...
1707	1875	147	4847	...	29 Boötis .....pr.π	5·0	88·88	8	14 35 33·488	+ 2·8177	+ 0·002	—0·0008	— 0·001
1708	1876	152	4849	...	30 Boötis (as one mass)..ζ	3·8	94·00	4	14 35 53·740	+ 2·8597	+ 0·003	+0·0019	— 0·008
1709	6050	...	...	19907	Lacaille 6050	7·0*	90·93	12	14 35 54·961	+ 3·9774	+ 0·047	...	...
1710	1877	155	4850	...	31 Boötis	5·0	94·50	2	14 36 14·590	+ 2·9446	+ 0·005	—0·0002	+ 0·001
1711†	6039	...	4844	19916	Lacaille 6039	5·2	94·55	7	14 36 34·652	+ 4·6872	+ 0·099	+0·006	— 0·027
1712	1874*	154	4854	19930	53 Hydræ	5·9	90·44	5	14 36 52·001	+ 3·4582	+ 0·021	—0·0032	+ 0·001
1713†	6063	150	4852	19931	Centauri .....c^1	3·8	94·50	7	14 36 55·768	+ 3·6580	+ 0·030	—0·0093	+ 0·042
1714*	1880	158	4855	19941	107 Virginis.....μ	3·9	89·50	6	14 37 15·811	+ 3·1493	+ 0·010	+0·0056	+ 0·003
1715	6071	159	4858	19958	Centauri .....c^2	5·0	87·80	3	14 38 14·419	+ 3·6626	+ 0·030	...	...

1696, 1697. The separate observations are printed with those of β Centauri in Appendix II.
1704 The letter *z*, having been in use at the Cape since 1836, is retained.
1712. 4 Libræ in B.A.C. and C.G.A.

1705, 1713, 1715. B.A.C. gives no letter.

No.	Mean Date. 1800+	No. of Obs.	Mean Dec. 1890·0.	Sec. of Final Dec.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_δ.	Corr. for μ_δ to 1890·0.	Fallows and Henderson.	Johnson.	Cape Catalogues. 1840.	1850.	1860.	1880.	1885.	Melbourne, 1870 and 1880.
			° ′ ″	″	″	″	″	″								
1681*	90·50	6	+ 39 21 6·89	6·32	— 16·155	+ 0·22	...	...	...	...	...	...	...	...	...	...
1682	88·33	12	+ 30 51 16·55	16·11	— 16·063	+ 0·23	+ 0·125	+0·21	...	...	...	...	577	7928	996	734*
1683	94·30	12	— 41 36 50·15	50·27	— 16·059	+ 0·34	...	...	247	...	...	2583	...	7925	...	...
1684	89·98	6	— 56 4 42·25	42·28	— 16·054	+ 0·38	...	...	...	...	1883	2582	...	7926	...	...
1685	87·32	6	+ 22 44 41·54	41·11	— 16·039	+ 0·25	+ 0·042	+0·11	...	...	...	...	...	...	...	...
1686	91·15	13	+ 38 47 23·38	22·87	— 16·033	+ 0·22	+ 0·153	—0·18	...	...	1888	...	...	...	997	...
1687	90·96	10	— 41 40 27·18	27·29	— 15·988	+ 0·34	— 0·032	+0·03	248*	332	1887	2584	578	7935	999	736*
1688	94·45	6	— 61 31 46·47	46·55	— 15·976	+ 0·41	...	...	...	...	...	...	...	7940	...	...
1689*	91·46	2	— 88 13 31·12	31·16	— 15·944	+ 2·59	...	...	...	...	...	...	...	...	...	...
1690	87·50	5	— 34 25 30·04	30·24	— 15·939	+ 0·33	...	...	...	...	...	...	...	7943	...	...
1691	93·67	12	— 76 32 5·66	5·76	— 15·919	+ 0·58	...	...	...	...	1886	...	...	7942	...	...
1692	91·30	9	+ 47 16 8·74	7·85	— 15·905	+ 0·20	...	...	...	...	...	...	...	...	...	...
1693	89·79	6	— 11 50 14·69	14·86	— 15·848	+ 0·30	+ 0·39	+0·08	...	...	...	2592	...	...	...	...
1694	94·25	4	— 38 18 56·28	56·40	— 15·831	+ 0·34	...	...	...	...	...	...	...	7959	...	...
1695	87·44	4	— 34 47 51·35	51·55	— 15·817	+ 0·33	...	...	...	...	...	...	...	7961	...	...
1696†	...	12	— 60 22	...	— 15·797	+ 0·41	+ 0·737	*	*29*	335	1898	2594	579	7965	1003	742*
1697†	...	13	— 60 22	...	— 15·796	+ 0·41	+ 0·737	*	249*	336	1899	2595	580	7964	1002	741*
1698	94·31	12	— 26 14 51 00	51·16	— 15·733	+ 0·32	...	...	...	...	1903	2600	...	7972	...	...
1699	91·83	6	— 64 29 44·16	44·21	— 15·714	+ 0·44	— 0·240	+0·44	...	...	1901	2597	...	7975	1006	744
1700	95·66	12	— 86 1 8·78	8·77	— 15·688	+ 1·37	...	...	...	...	...	...	...	7966	...	...
1701	86·65	13	— 78 34 35·94	36·13	— 15·682	+ 0·66	— 0·033	—0·11	...	334	1896	2596	...	7979	1007	743
1702	92·73	8	— 46 54 55·92	56·02	— 15·660	+ 0·37	— 0·029	+0·08	250*	337	1904	2601	...	7986	1009	745
1703	92·80	6	+ 44 52 48·20	47·47	— 15·654	+ 0·21	— 0·049	+0·14	...	...	...	...	...	...	...	...
1704*	89·87	115	— 87 41 54·88	54·89	— 15·640	+ 2·19	— 0·060†	—0·01	*6*	327	1869	2571	576	7960	1005	737*
1705*	93·94	7	+ 37 19 14·72	14·87	— 15·632	+ 0·34	...	...	...	338	1905	2603	...	7994	...	746
1706†	95·53	3	— 29 13 31·09	31·24	— 15·625	+ 0·33	...	...	...	...	...	...	...	7995	...	...
1707†	89·44	9	+ 16 53 25·22	24·89	— 15·608	+ 0·26	— 0·006	0·00	...	...	...	...	...	...	1011	...
1708†	94·00	4	+ 14 12 1·85	1·57	— 15·590	+ 0·27	— 0·010	+0·04	...	...	...	...	...	...	1013	...
1709	90·93	12	— 47 6 1·41	1·51	— 15·589	+ 0·37	...	...	...	...	...	...	...	8002	...	...
1710	94·52	4	+ 8 37 57·96	57·66	— 15·570	+ 0·28	— 0·014	+0·06	...	...	...	...	...	...	...	...
1711	94·55	7	— 62 24 20·22	20·32	— 15·552	+ 0·44	— 0·10	+0·46	...	...	...	2604	...	8005	...	747
1712*	90·44	5	— 24 31 41·70	41·89	— 15·536	+ 0·33	— 0·007	0·00	...	...	1911	2609	...	8007	...	...
1713*	94·50	7	— 34 41 58·73	58·89	— 15·533	+ 0·34	— 0·201	+0·90	...	339	1910	2607	581	8008	...	*790*
1714	87·70	10	— 5 10 45·87	46·15	— 15·514	+ 0·30	— 0·305	—0·70	...	340	1912	2610	...	8013	1015	*791*
1715*	87·80	3	— 34 43 30·63	30·82	— 15·460	+ 0·35	...	...	...	...	1913	2613	...	8018	...	...

1681. V Boötis. Limits of magnitude 6·9 — 7·6 and 9·0 — 10·5. Period 256^d.
1689. Magnitude from Cape observations.
1696, 1697. Binary. 1704. Proper Motion determined for this Catalogue.
1706. $7^m·7$, $8^m·4$. 0″·9. 303°. Observed as one mass.
1707. Binary. Brighter star observed.
1708. Probable binary; $4^m·5$, $4^m·6$. Observed as one mass.

No.	Bradley or Lacaille.	Piazzi. 1800.	B.A.C. 1850.	C.G.A. 1875.	Star's Name.	Mag.	Mean Date. 1800+	No. of Obs.	Mean R.A. 1890·0.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_a.	Corr. for μ_a to 1890·0.
									h m s	s	s	s	s
1716	1883	165	4864	...	34 Boötis	Var.	92·46	6	14 38 35·293	+ 2·6380	0·000	—0·0011	+ 0·003
1717†	6070	...	4862	19985	Lupi .....*b*	5·1	93·44	9	14 39 19·780	+ 4·1653	+ 0·058	—0·0021	+ 0·007
1718	6074	...	4860	19988	Lacaille 6074	6·5*	94·41	4	14 39 31·615	+ 4·1595	+ 0·057	...	...
1719	1882	167	4868	20008	5 Libræ .....*seq.*	6·6*	88·99	6	14 39 53·858	+ 3·3026	+ 0·015	—0·0028	— 0·003
1720	1890	175	4876	...	36 Boötis.....*seq.* ε	2·7	94·00	9	14 40 10·940	+ 2·6240	0·000	—0·0043	+ 0·017
1721*	1889	174	4878	...	109 Virginis	3·7	89·81	16	14 40 41·250	+ 3·0370	+ 0·007	—0·0090	— 0·002
1722	...	171	4879	20037	Piazzi XIV. 171	6·4*	90·93	12	14 40 58·408	+ 3·4017	+ 0·019	—0·002	+ 0·002
1723	1885*	169	4877	20035	55 Hydræ	5·8	94·36	4	14 40 58·648	+ 3·4782	+ 0·022	—0·0039	+ 0·017
1724	1887*	176	4882	20048	57 Hydræ	6·1	93·53	6	14 41 31·412	+ 3·4984	+ 0·022	*	...
1725	6036	...	...	20030	Lacaille 6036	7½*	93·92	8	14 41 49·536	+ 7·3090	+ 0·424	...	...
1726	6107	...	4884	20063	Lacaille 6107	6·9	87·68	5	14 42 6·187	+ 3·4782	+ 0·022	...	...
1727	6111	...	4888	20080	Lacaille 6111	5·7	94·34	4	14 42 57·368	+ 3·4572	+ 0·021	...	...
1728	...	...	...	...	Lalande 27004.....	7·0†	89·82	6	14 44 6·237	+ 2·9098	+ 0·005	...	...
1729	6114	185	4892	20109	Lupi .....*o*	4·4	92·49	6	14 44 27·529	+ 3·8957	+ 0·040	...	...
1730	1893	186	4894	20117	8 Libræ	5·3	91·90	10	14 44 36·098	+ 3·3171	+ 0·016	—0·0098	+ 0·019
1731*	1894	187	4895	20119	9 Libræ .....*a*	3·0	88·63	38	14 44 47·571	+ 3·3181	+ 0·016	—0·0093	— 0·013
1732	...	...	4897	...	Lalande 27052.....	6·0	...	...	14 44 48	+ 2·3780	— 0·001	—0·0209†	...
1733†	6077	...	4889	20115	Lacaille 6077	Var.	93·01	16	14 45 22·108	+ 6·6714	+ 0·312	—0·020	+ 0·060
1734	6009	...	4883	20104	Octantis .....π^2	5·5	86·64	14	14 45 41·696	+ 9·8787	+ 0·941	...	...
1735†	6119	...	4904	20157	Lacaille 6119	5·3	90·33	13	14 47 5·883	+ 4·5943	+ 0·083	—0·023	+ 0·008
1736	1899*	199	4913	20184	12 Libræ	5·7	95·53	2	14 47 56·767	+ 3·4742	+ 0·021	—0·0014	+ 0·008
1737	1901	206	4915	20193	13 Libræ	5·9	87·11	5	14 48 24·485	+ 3·2540	+ 0·013	—0·0061	— 0·018
1738†	6146	204	4916	20203	Lacaille 6146	5·3	91·08	12	14 48 59·588	+ 3·6654	+ 0·028	+0·0017	— 0·002
1739	6152	...	...	20224	Lacaille 6152	7¾*	87·33	6	14 49 44·448	+ 3·6852	+ 0·029	...	...
1740	6162	...	...	20247	Lacaille 6162	6·3	94·24	4	14 50 39·798	+ 3·5688	+ 0·024	...	...
1741	...	221	4926	...	Piazzi XIV. 221	5·7	90·73	30	14 51 1·706	+ 2·8311	+ 0·004	—0·0014	+ 0·001
1742	...	212	4923	20257	Piazzi XIV. 212 .....*seq.*	6·3*	90·18	11	14 51 2·538	+ 3·4194	+ 0·018	+0·0691†	— 0·012
1743	6168	213	4925	20260	Lacaille 6168	7·0	88·94	6	14 51 5·907	+ 3·4959	+ 0·021	...	...
1744†	6160	211	4924	20263	Lupi .....β	2·7	92·60	8	14 51 19·663	+ 3·9109	+ 0·039	—0·0065	+ 0·017
1745	...	...	...	...	Gilliss P.Z. 10434	8·9‡	91·46	2	14 51 24·132	+17·431	+ 3·580	...	...
1746	1905	220	4927	20276	16 Libræ	4·5	87·16	3	14 51 26·389	+ 3·1345	+ 0·010	—0·0061	— 0·017
1747†	6170	216	4928	20286	Centauri.....κ	3·4	93·86	6	14 52 0·335	+ 3·8838	+ 0·037	—0·0041	+ 0·016
1748	1904*	222	4930	20295	59 Hydræ (as one mass)...	5·8	92·22	11	14 52 8·634	+ 3·5417	+ 0·023	—0·0052	+ 0·012
1749*	1911	238	4939	20363	19 Libræ .....δ	Var.	90·42	1	14 55 5·690	+ 3·2038	+ 0·012	—0·0064	+ 0·003
1750	6190	...	...	20361	Lacaille 6190	6·6*	86·65	6	14 55 10·218	+ 3·6947	+ 0·028	...	...

1717, 1734. B.A.C. gives no letter.

1737. ξ^1 Libræ in B.A.C. and C.G.A.

1743. 14 Libræ in B.A.C.

No.	Mean Date. 1800+	No. of Obs.	Mean Dec. 1890·0.	Sec. of Final Dec.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_δ.	Corr. for μ_δ to 1890·0.	Fallows and Henderson.	Johnson.	Cape Catalogues. 1840.	1850.	1860.	1880.	1885.	Melbourne, 1870 and 1880.
			° ′ ″	″	″	″	″	″								
1716*	92·46	6	+ 26 59 44·81	44·46	— 15·441	+ 0·25	— 0·008	+0·02	...	...	...	...	...	...	...	...
1717*	93·44	9	— 51 55 2·39	2·48	— 15·399	+ 0·40	— 0·127	+0·44	...	...	1916	...	...	8031	...	...
1718	94·41	4	— 51 44 29·99	30·10	— 15·388	+ 0·40	...	...	...	...	1917	...	...	8032	...	...
1719†	89·20	7	— 14 59 43·66	43·85	— 15·367	+ 0·32	+ 0·006	0·00	...	...	1921	2618	582	...	...	...
1720†	94·00	9	+ 27 32 18·53	18·14	— 15·351	+ 0·25	+ 0·001	0·00	*158*	...	1925	2621	583	8039	1019	750*
1721	89·61	31	+ 2 21 24·46	24·21	— 15·323	+ 0·29	— 0·026	—0·01	...	...	1927	...	...	...	1020	*796*
1722	90·93	12	— 20 51 46·30	46·45	— 15·307	+ 0·33	0·00	0·00	...	...	...	2623	...	...	...	...
1723	94·36	4	— 25 9 42·37	42·54	— 15·306	+ 0·33	— 0·030	+0·13	...	...	1926	2622	...	8044	...	...
1724*	93·53	6	— 26 11 5·93	6·09	— 15·275	+ 0·34	— 0·028	+0·10	...	...	1929	2625	586	8053	...	...
1725	93·99	12	— 78 25 42·99	43·11	— 15·258	+ 0·70	...	...	...	...	...	...	...	8049	...	...
1726	87·68	5	— 25 1 56·05	56·28	— 15·243	+ 0·34	...	...	...	...	1932	2627	...	8058	...	...
1727	94·34	4	— 23 47 34·12	34·29	— 15·194	+ 0·33	...	...	...	...	...	2629	...	8066	...	...
1728	89·82	6	+ 10 30 14·54	14·29	— 15·128	+ 0·28	...	...	...	...	...	...	...	...	...	...
1729	92·49	6	— 43 7 10·13	10·22	— 15·108	+ 0·38	...	...	...	342	1940	2633	...	8078	1025	754
1730	91·90	10	— 15 32 21·98	22·13	— 15·100	+ 0·32	— 0·090	+0·17	*104*	...	1942	2634	...	...	1026	755*
1731	89·59	51	— 15 35 3·20	3·39	— 15·089	+ 0·32	— 0·072	—0·03	251*	343	1943	2635	588	8084	1027	756*
1732*	92·96	6	+ 38 15 54·41	53·86	— 15·088	+ 0·24	+ 0·122†	—0·36	...	...	...	...	...	...	...	...
1733*	92·75	19	— 76 12 48·42	48·61	— 15·055	+ 0·65	0·00	0·00	...	...	...	2630	...	8085	...	...
1734*	87·01	24	— 82 35 44·37	44·43	— 15·036	+ 0·96	...	...	...	...	...	2626	587	8083	1030	752*
1735	90·33	13	— 59 39 41·53	41·57	— 14·955	+ 0·45	— 0·13	+0·04	...	...	1947	2641	...	8100	...	...
1736	95·53	3	— 24 11 29·18	29·33	— 14·906	+ 0·34	— 0·037	+0·20	...	...	1951	2646	590	8116	1033	...
1737*	87·11	5	— 11 26 55·92	56·22	— 14·878	+ 0·32	— 0·011	—0·03	...	...	...	2648	...	...	...	...
1738	90·05	13	— 33 24 30·68	30·79	— 14·844	+ 0·37	— 0·012	0·00	...	...	1954	2649	591	8121	1034	...
1739	87·33	6	— 34 11 5·45	5·68	— 14·800	+ 0·37	...	...	...	...	...	...	...	8129	...	...
1740	94·24	4	— 28 42 44·49	44·63	— 14·745	+ 0·36	...	...	...	...	...	...	...	8136	1037	...
1741	91·34	41	+ 14 53 28·44	28·16	— 14·723	+ 0·29	+ 0·020	—0·03	...	...	...	...	...	...	1042	...
1742*	90·20	10	— 20 55 7·78	7·88	— 14·723	+ 0·34	— 1·766†	+0·35	...	...	1965	...	592	...	...	...
1743*	88·94	6	— 24 59 52·16	52·28	— 14·719	+ 0·35	...	...	...	...	...	2655	...	8141	...	...
1744	92·60	8	— 42 41 24·91	25·02	— 14·706	+ 0·39	— 0·058	+0·15	*64*	344	1963	2654	593	8143	1043	762
1745*	91·46	2	— 86 22 36·31	36·35	— 14·701	+ 1·74	...	...	...	...	...	...	...	...	...	...
1746	87·02	4	— 3 53 52·55	52·89	— 14·699	+ 0·32	— 0·155	—0·46	...	...	1967	2656	...	8148	...	...
1747	93·86	6	— 41 39 43·88	44·02	— 14·666	+ 0·39	— 0·018	+0·07	*65*	346	1966	2657	594	8152	1047	764
1748†	92·40	12	— 27 12 54·87	55·02	— 14·657	+ 0·36	— 0·049	+0·12	...	...	1969	2659	...	8156	...	...
1749*	90·42	1	— 8 4 55·84	56·05	— 14·479	+ 0·33	— 0·009	0·00	...	347	1971	2662	...	...	1051	*804*
1750	86·65	6	— 33 55 20·19	20·49	— 14·475	+ 0·38	...	...	...	...	...	...	...	8175	...	...

1716. W Boötis. Limits of magnitude 5·2—6·1. Period irregular.
1719. $6^m·6$, $11^m·7$. 2″·7 249°. Fainter star not seen.
1720. Binary. Brighter star observed.
1724. Auwers considers Bradley's R.A. 1 second wrong and that there is probably no Proper Motion in R.A.
1732, 1742. Proper Motion from *Bonn Observations*, Vol. VII.
1733. R Apodis. Limits of magnitude 5·5—6·2.
1745. Magnitude from Cape observations.
1748. $6^m·5$, $6^m·6$ 0″·9 310°. Observed as one mass.
1749. Limits of magnitude 5·0—6·2. Period $2^d.\ 7^h.\ 51^m.\ 22^s·8$. *Algol*-type.

No.	Bradley or Lacaille.	Piazzi. 1800.	B.A.C. 1850.	C.G.A. 1875.	Star's Name.	Mag.	Mean Date. 1800+	No. of Obs.	Mean R.A. 1890·0.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_α.	Corr. for μ_α to 1890·0.
									h m s	s	s	s	s
1751†	6201	242	4948	20428	Lupi (as one mass)...π	3·8	89·20	12	14 57 37·767	+ 4·0625	+ 0·044	—0·0047*	— 0·004
1752*	1913*	251	4950	20431	Scorpii 1 H. .....γ	3·3	87·75	8	14 57 37·869	+ 3·5057	+ 0·021	—0·0076	— 0·017
1753	1918	259	4958	...	42 Boötis .....β	3·6	89·60	5	14 57 48·110	+ 2·2638	0·000	—0·0048	— 0·002
1754	6209	250	4954	20444	Lacaille 6209	5·3	91·85	12	14 58 10·254	+ 3·8773	+ 0·036	...	...
1755	6224	...	4959	20471	Lacaille 6224	6·7	86·71	5	14 59 19·318	+ 3·5192	+ 0·021	...	...
1756	1922	270	4969	...	43 Boötis.....ψ	4·5	89·54	13	14 59 43·924	+ 2·5836	+ 0·001	—0·0145	— 0·007
1757	6228	261	4963	20480	Lacaille 6228	7·2*	94·29	4	14 59 45·828	+ 3·4871	+ 0·020	—0·0010*	+ 0·004
1758	1923	275	4974	...	44 Boötis .....*seq. i*	5·3	88·53	1	15 0 9·780	+ 2·0188	+ 0·002	—0·0432	— 0·064
1759	...	...	...	...	B.D. — 19° No. 4027 ...	8·5†	87·55	4	15 1 1·019	+ 3·4143	+ 0·017	...	...
1760	6196	...	...	20503	Lacaille 6196	6·4*	92·16	6	15 1 15·457	+ 6·0598	+ 0·202	...	...
1761	6223	...	...	20513	Lacaille 6233	6·0	94·34	3	15 1 23·407	+ 3·9423	+ 0·038	...	...
1762	...	...	...	...	Lalande 27581.....	7·3†	89·95	6	15 2 24·712	+ 2·6605	+ 0·002	...	...
1763	6243	...	...	20546	Lacaille 6243	6·6*	94·25	3	15 3 4·167	+ 3·8309	+ 0·033	...	...
1764	6250	282	4984	20557	Lacaille 6250	6·8*	87·28	5	15 3 26·267	+ 3·4909	+ 0·020	...	...
1765	6253	...	4985	20562	Lacaille 6253	6·2*	94·23	4	15 3 48·188	+ 3·5393	+ 0·021	...	...
1766	...	...	...	...	Lalande 27599.....	6·8†	89·49	6	15 3 57·407	+ 3·0004	+ 0·007	...	...
1767	6246	...	4986	20570	Lupi .....κ	4·2	90·47	6	15 4 17·240	+ 4·1538	+ 0·048	—0·012*	+ 0·006
1768†	6245	...	4987	20572	Lupi .....ζ	3·5	88·95	14	15 4 23·051	+ 4·2913	+ 0·055	—0·0149	— 0·016
1769	...	...	...	...	Gilliss P.Z. 10624	8·4‡	91·46	2	15 5 41·546	+20·870	+ 4·764	...	...
1770*	1927	3	4995	20601	24 Libræ .....ι	4·9	88·07	7	15 5 57·088	+ 3·4134	+ 0·017	—0·0037	— 0·007
1771	6263	...	4996	20604	Lacaille 6263	6·4*	90·47	3	15 6 11·520	+ 3·7693	+ 0·030	...	...
1772	6273	5	5002	20630	23 Libræ	6·4	87·03	4	15 7 3·054	+ 3·5245	+ 0·020	—0·0320*	— 0·095
1773	...	...	...	20662	Lalande 27744.....	6·7*	90·46	6	15 8 19·950	+ 3·0883	+ 0·009	—0·0804†	+ 0·037
1774†	6255	...	5005	20657	Trianguli Australis...γ	3·0	90·68	9	15 8 38·808	+ 5·5326	+ 0·140	—0·0137	+ 0·009
1775	...	18	...	...	Piazzi XV. 18	6·3	90·48	5	15 8 40·060	+ 2·6485	+ 0·002	...	...
1776	...	...	...	...	B.D. — 20° No. 4182 ...	9·5†	87·54	3	15 8 44·929	+ 3·4379	+ 0·018	...	...
1777†	6266	...	5011	20668	Circini .....β	4·0	93·85	11	15 8 54·252	+ 4·6669	+ 0·075	—0·0157	+ 0·060
1778	6291	...	5020	20685	Lacaille 6291 (as one mass)	6·9*	94·45	5	15 9 4·748	+ 3·5769	+ 0·022	...	...
1779	...	...	5026	...	Lalande 27815.....	6·4	90·45	1	15 9 24·210	+ 2·2855	+ 0·001	...	...
1780	1932	20	5024	...	3 Serpentis	5·4	93·04	8	15 9 43·259	+ 2·9803	+ 0·007	—0·0020	+ 0·006
1781	...	19	5023	20700	Piazzi XV. 19	5·8	95·53	1	15 10 0·468	+ 3·4706	+ 0·018	—0·005	+ 0·028
1782	6268	...	...	20703	Lacaille 6268	6·6*	93·76	5	15 10 37·944	+ 5·4093	+ 0·127	...	...
1783	6296	...	5028	20713	Lupi (as one mass) ...μ	4·2	95·52	2	15 10 52·864	+ 4·1505	+ 0·045	—0·005*	+ 0·028
1784	6297	...	...	20716	Lacaille 6297	6·9*	94·04	6	15 10 55·510	+ 3·9222	+ 0·035	...	...
1785	1936	29	5036	...	49 Boötis .....δ	3·5	94·51	8	15 11 4·120	+ 2·4117	+ 0·001	+0·0069	— 0·031

1752. Fundamental star for Southern Zones. 20 Libræ in B.A.C., σ Libræ in C.G.A.

1770. ι^1 Libræ in B.A.C.

No.	Mean Date. 1800+	No. of Obs.	Mean Dec. 1890·0.	Sec. of Final Dec.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_δ.	Corr. for μ_δ to 1890·0.	Fallows and Henderson.	Johnson.	Cape Catalogues. 1840.	1850.	1860.	1880.	1885.	Melbourne, 1870 and 1880.
			° ′ ″	″	ˢ	″	″	″								
1751†	89·20	12	— 46 37 12·39	12·47	— 14·325	+ 0·42	— 0·034	—0·03	...	348	1973	2668	597	8191	1056	766
1752*	87·75	8	— 24 50 56·60	56·73	— 14·325	+ 0·36	— 0·050	—0·11	252	349	1975	2669	598	8192	1057	*805*
1753	90·33	12	+ 40 49 28·91	28·35	— 14·315	+ 0·24	— 0·036	+0·01	...	...	1979	...	...	...	1059	*806*
1754	92·05	13	— 40 38 14·30	14·38	— 14·292	+ 0·40	...	...	...	...	1977	2670	...	8195	...	*807*
1755	86·71	5	— 25 21 38·28	38·60	— 14·222	+ 0·37	...	...	...	...	...	2674	...	8206	...	...
1756	89·83	12	+ 27 22 36·71	36·41	— 14·196	+ 0·27	— 0·008	0·00	...	...	...	...	599	8212	1060	768*
1757*	94·29	4	— 23 42 5·22	5·39	— 14·194	+ 0·37	— 0·130*	+0·56	...	...	...	2676	...	8210	...	...
1758†	91·15	8	+ 48 4 60·29	59·32	— 14·169	+ 0·22	+ 0·023	—0·03	...	...	...	...	...	...	...	...
1759	87·55	4	— 19 47 51·64	51·91	— 14·117	+ 0·36	...	...	...	...	...	...	...	...	...	...
1760	92·16	6	— 72 21 0·42	0·41	— 14·101	+ 0·63	...	...	...	...	...	...	...	8220	...	...
1761	94·37	4	— 42 26 37·38	37·51	— 14·094	+ 0·41	...	...	...	...	...	...	...	8224	...	...
1762	89·95	6	+ 23 19 57·90	57·55	— 14·029	+ 0·28	...	...	...	...	...	...	...	...	...	...
1763	94·23	4	— 38 22 16·85	16·96	— 13·989	+ 0·41	...	...	...	...	...	...	...	8237	...	...
1764	87·15	6	— 23 33 52·65	52·91	— 13·965	+ 0·37	...	...	...	...	...	2687	...	8243	...	...
1765	94·23	4	— 25 54 45·68	45·82	— 13·942	+ 0·38	...	...	...	...	...	2689	...	8246	...	...
1766	89·49	6	+ 4 17 11·87	11·65	— 13·933	+ 0·32	...	...	...	...	...	...	...	...	...	...
1767	90·47	7	— 48 19 7·96	8·01	— 13·912	+ 0·44	— 0·07*	+0·03	...	352	1991	2690	603	8251	1062	771
1768	88·95	14	— 51 40 47·67	47·73	— 13·906	+ 0·46	— 0·069	—0·07	...	351	1990	2691	...	8253	1063	772
1769*	91·46	2	— 86 53 6·79	6·82	— 13·822	+ 2·21	...	...	...	...	...	...	...	...	...	...
1770*	88·07	7	— 19 22 29·14	29·32	— 13·807	+ 0·37	— 0·042	—0·08	...	...	1996	2695	604	8261	1064	*811*
1771	89·50	4	— 35 40 34·57	34·70	— 13·791	+ 0·40	...	...	...	...	...	2696	...	8262	...	774
1772*	87·03	4	— 24 53 37·08	37·36	— 13·737	+ 0·38	— 0·040*	—0·12	...	...	...	2701	...	8268	...	...
1773*	90·46	6	— 0 55 29·11	29·29	— 13·655	+ 0·33	— 0·502†	+0·23	...	...	...	...	...	...	...	...
1774	90·68	9	— 68 16 20·18	20·23	— 13·634	+ 0·60	— 0·038	+0·03	253*	353	1999	...	606	8280	1068	776*
1775	90·48	5	+ 23 23 31·06	30·78	— 13·633	+ 0·29	...	...	...	...	...	...	...	...	...	...
1776	87·54	4	— 20 25 52·84	53·11	— 13·628	+ 0·37	...	...	...	...	...	...	...	...	...	...
1777	93·85	11	— 58 23 22·75	22·82	— 13·618	+ 0·50	— 0·158	+0·61	...	354	2002	2709	...	8284	...	777
1778†	94·46	6	— 27 11 15·30	15·48	— 13·607	+ 0·39	...	...	...	...	...	2717	...	8290	...	...
1779	93·82	6	+ 38 40 37·26	36·70	— 13·586	+ 0·25	...	...	...	...	...	...	...	...	...	...
1780	92·76	9	+ 5 20 52·68	52·44	— 13·566	+ 0·33	+ 0·003	—0·01	...	...	...	...	...	...	1069	...
1781	95·53	3	— 21 59 30·95	31·11	— 13·547	+ 0·38	— 0·02	+0·11	...	...	...	2719	...	8301	...	...
1782	93·89	6	— 67 4 42·89	42·98	— 13·507	+ 0·59	...	...	...	...	...	...	...	8303	...	778
1783†	95·52	3	— 47 28 10·40	10·50	— 13·490	+ 0·45	— 0·08*	+0·44	...	355	2005	2722	607	8307	...	779*
1784	94·04	6	— 40 39 22·10	22·20	— 13·488	+ 0·43	...	...	...	...	...	...	...	8309	...	...
1785	94·51	8	+ 33 43 32·18	31·68	— 13·479	+ 0·27	— 0·105	+0·47	...	...	...	...	...	...	...	...

1751. $4^m·5$, $4^m·6$ 1″·4 99° 1877·36. Observed as one mass.
1758. Binary; $5^m·3$, $6^m·2$. Brighter star observed.
1773. Proper Motion from *Bonn Observations*, Vol. VII.
1783. $4^m·8$, $5^m·2$ 2″·1 173° 1836·2; 1″·1 159° 1894·5. Observed as one mass.
1757, 1772. Proper Motion from Radcliffe 1890.
1769. Magnitude from Cape observations.
1778. $7^m·1$, $8^m·6$ 1″·1 16c°. Observed as one mass.

No.	Bradley or Lacaille.	Piazzi. 1800.	B.A.C. 1850.	C.G.A. 1875.	Star's Name.	Mag.	Mean Date. 1800+	No. of Obs.	Mean R.A. 1890·0.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_α.	Corr. for μ_α to 1890·0.
									h m s	s	s	s	s
1786*	1934	26	5034	20723	27 Libræ ....β	2·7	87·90	31	15 11 5·266	+ 3·2289	+ 0·012	—0·0079	— 0·017
1787	...	...	...	...	B.D. — 21° No. 4072 ...	8·8†	87·54	3	15 11 22·929	+ 3·4563	+ 0·018	...	...
1788	6303	23	5035	20731	Lacaille 6303	5·7	90·54	3	15 11 43·603	+ 3·9166	+ 0·034	...	...
1789	6310	...	...	20734	Lacaille 6310	7·0*	92·38	4	15 11 56·749	+ 3·6648	+ 0·025	...	...
1790	6316	...	5038	20740	Lacaille 6316	7¾*	89·25	4	15 12 8·295	+ 3·5275	+ 0·020	...	...
1791	6318	...	...	20759	Lacaille 6318	8*	90·04	4	15 13 18·400	+ 3·7594	+ 0·028	...	...
1792	...	...	...	...	Lalande 27913.....	6·8†	91·89	6	15 13 25·365	+ 2·8814	+ 0·005	...	...
1793†	6326	31	5046	20779	Lupi .....δ	3·4	93·70	8	15 14 9·113	+ 3·9206	+ 0·034	—0·0031	+ 0·011
1794	6322	...	5049	20786	Lupi .....ν^1	5·0	92·75	4	15 14 28·536	+ 4·1682	+ 0·045	...	...
1795†	6335	34	5054	20793	Lupi .....ϕ^1	3·3	94·56	8	15 14 49·538	+ 3·7986	+ 0·029	—0·0081	+ 0·037
1796	1939	41	5057	20799	29 Libræ .....o	6·0	93·75	4	15 14 52·364	+ 3·3446	+ 0·014	+0·0007	— 0·003
1797	6333	35	5056	20806	Lupi (as one mass) ...ε	3·6	90·18	6	15 15 12·723	+ 4·0539	+ 0·039	...	...
1798	1941	50	5063	20835	30 Libræ	7·0*	94·25	3	15 16 53·629	+ 3·3389	+ 0·014	—0·0025	+ 0·011
1799	1946	59	5072	...	50 Boötis	5·3	92·70	6	15 17 24·300	+ 2·4055	+ 0·001	—0·0050	+ 0·014
1800	...	...	...	...	Lalande 28013.....	8·8†	87·53	3	15 17 29·409	+ 3·4816	+ 0·018	...	...
1801	6356	47	5065	20847	Lupi .....υ	5·3	86·80	4	15 17 33·943	+ 3·9037	+ 0·032	...	...
1802	6350	...	...	20842	Lacaille 6350	7·0*	90·68	6	15 17 36·758	+ 4·4035	+ 0·055	...	...
1803	6216	...	5037	20818	Octantis.....ρ	5·7	93·52	39	15 18 1·111	+12·904	+ 1·392	+0·081†	— 0·285
1804	6364	...	...	20869	Lacaille 6364	7¾*	88·51	4	15 18 29·861	+ 3·8072	+ 0·029	...	...
1805	...	...	...	...	B.D. + 12° No. 2830...	8·8†	90·43	4	15 18 39·420	+ 2·8561	+ 0·005	...	...
1806†	6323	...	5068	20878	Apodis .....κ^1	5·6	93·23	8	15 19 32·278	+ 6·4179	+ 0·207	—0·003	+ 0·010
1807	1950	73	5084	...	51 Boötis.....μ	4·0†	...	...	15 20 20	+ 2·2782	+ 0·002	—0·0143	...
1808	6300	...	...	20895	Lacaille 6300	8*	94·54	4	15 20 28·656	+ 8·2109	+ 0·423	...	...
1809	1948	69	5085	...	9 Serpentis .....τ^1	5·5	91·54	10	15 20 41·279	+ 2·7817	+ 0·004	—0·0039	+ 0·006
1810	...	...	...	20946	C.G.A. 20946	8½*	87·54	3	15 21 31·309	+ 3·5915	+ 0·021	...	...
1811	6380	...	5086	20948	Lacaille 6380	4·9	94·31	3	15 21 44·977	+ 4·1529	+ 0·042	...	...
1812*	1949	75	5089	20960	32 Libræ	6·2	87·00	7	15 22 3·170	+ 3·3749	+ 0·015	—0·0010	— 0·003
1813	...	...	...	...	B.D. — 22° No. 3963 ...	9·5†	87·54	1	15 22 27·219	+ 3·5023	+ 0·018	...	...
1814	...	...	...	...	B.D. — 22° No. 3964 ...	9·6†	87·58	2	15 22 36·729	+ 3·5017	+ 0·018	...	...
1815	1955	86	5098	...	3 Coronæ Borealis .....β	3·8	89·25	12	15 23 17·582	+ 2·4865	+ 0·002	—0·0134	— 0·010
1816	...	...	...	21008	Lalande 28212.....	6·5*	89·87	6	15 24 14·780	+ 3·4582	+ 0·017	...	...
1817	...	...	...	...	Cor. D. — 25° No. 10958	9·7‡	88·98	4	15 24 15·065	+ 3·5708	+ 0·020	...	...
1818	6414	...	5105	21040	Lacaille 6414	7½*	86·75	5	15 25 45·929	+ 3·5271	+ 0·018	...	...
1819†	6398	...	5103	21051	Trianguli Australis ...ε	4·1	·91·24	12	15 26 39·486	+ 5·4219	+ 0·112	+0·0013	— 0·002
1820	1965	108	5122	...	52 Boötis .....ν^1	5·1	90·00	1	15 26 58·580	+ 2·1531	+ 0·002	+0·0005	0·000

1796. o^1 Libræ in B.A.C. 1798. o^2 Libræ in B.A.C. 1812. ζ^1 Libræ in B.A.C.

No.	Mean Date. 1800+	No. of Obs.	Mean Dec.' 1890·0.	Sec. of Final Dec.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_δ.	Corr. for μ_δ to 1890·0.	Fallows and Henderson.	Johnson.	Cape Catalogues. 1840.	1850.	1860.	1880.	1885.	Melbourne, 1870 and 1880.
			° ′ ″	″	″	″	″	″								
1786	89·15	41	— 8 58 35·64	35·85	— 13·477	+ 0·35	— 0·017	—0·01	254*	357	2009	2725	610	8313	1070	780*
1787	87·54	3	— 21 10 1·17	1·44	— 13·458	+ 0·38	...	...	...	...	...	...	...	...	...	...
1788	89·52	4	— 40 23 3·19	3·29	— 13·436	+ 0·43	...	...	...	...	2010	2726	...	8317	1072	...
1789	92·38	4	— 30 48 21·52	21·62	— 13·421	+ 0·40	...	...	...	...	2011	...	...	8319	...	...
1790	89·25	4	— 24 35 46·48	46·60	— 13·409	+ 0·39	...	...	...	...	...	2728	...	8320	...	...
1791	90·04	4	— 34 31 27·79	27·86	— 13·333	+ 0·41	...	...	...	...	...	...	...	8329	...	...
1792	91·89	6	+ 10 49 45·44	45·21	— 13·325	+ 0·32	...	...	...	...	...	...	...	...	...	...
1793	93·70	8	— 40 14 54·84	54·94	— 13·278	+ 0·43	— 0·031	+0·11	...	358	2017	2737	612	8340	1075	781
1794	93·32	6	— 47 31 35·99	36·10	— 13·256	+ 0·46	...	...	...	359	2018	2738	...	8345	...	782
1795	94·11	9	— 35 51 41·98	42·14	— 13·233	+ 0·42	— 0·085	+0·35	...	360	2022	2742	...	8347	...	783
1796*	94·02	6	— 15 9 3·75	3·95	— 13·230	+ 0·37	+ 0·038	—0·15	...	...	...	2745	...	...	...	...
1797†	90·18	6	— 44 17 35·36	35·40	— 13·207	+ 0·45	...	...	...	361	2023	2744	...	8352	1076	785
1798*	94·30	4	— 14 44 26·66	26·83	— 13·097	+ 0·37	+ 0·013	—0·06	...	...	2026	2747	...	8367	...	...
1799	92·70	6	+ 33 19 40·54	40·15	— 13·063	+ 0·27	+ 0·004	—0·01	...	...	...	...	...	...	...	...
1800	87·53	3	— 21 57 32·39	32·65	— 13·058	+ 0·39	...	...	...	...	...	...	...	...	...	...
1801	86·80	4	— 39 19 2·30	2·58	— 13·052	+ 0·44	...	...	...	...	2028	2748	...	8374	...	...
1802	90·68	6	— 52 40 3·99	4·00	— 13·049	+ 0·49	...	...	...	...	...	...	...	8372	...	...
1803*	91·19	109	— 84 5 46·04	46·07	— 13·022	+ 1·44	+ 0·081†	—0·10	...	...	2007	2727	611	8363	1077	784*
1804	88·51	4	— 35 48 32·30	32·44	— 12·990	+ 0·43	...	...	...	...	...	...	...	8379	...	...
1805	90·43	4	+ 11 59 19·95	19·67	— 12·980	+ 0·32	...	...	...	...	...	...	...	...	...	...
1806	93·23	8	— 73 0 24·04	24·07	— 12·921	+ 0·72	— 0·04	+0·13	...	...	2027	2750	...	8386	...	...
1807†	93·33	9	+ 37 45 49·26	48·74	— 12·867	+ 0·26	+ 0·084	—0·28	...	...	...	...	...	8402	1081	...
1808	94·73	12	— 78 42 33·47	33·54	— 12·858	+ 0·92	...	...	...	...	...	...	...	8394	...	...
1809	91·54	10	+ 15 48 54·64	54·38	— 12·844	+ 0·32	+ 0·005	—0·01	...	...	...	...	...	...	1083	...
1810	87·54	3	— 26 45 2·99	3·23	— 12·788	+ 0·41	...	...	...	...	...	...	...	...	...	...
1811	94·34	4	— 46 21 0·79	0·90	— 12·772	+ 0·47	...	...	...	...	2031	2759	...	8411	...	...
1812*	87·00	7	— 16 19 56·44	56·69	— 12·752	+ 0·38	— 0·046	—0·14	...	...	2036	2762	615	8414	1086	819
1813	87·52	2	— 22 35 11·78	12·04	— 12·725	+ 0·40	...	...	...	...	...	...	...	...	...	...
1814	87·58	3	— 22 32 55·90	56·16	— 12·713	+ 0·40	...	...	...	...	...	...	...	...	...	...
1815	89·25	12	+ 29 29 6·47	6·12	— 12·668	+ 0·29	+ 0·074	+0·06	...	...	...	...	...	...	1087	...
1816	89·95	7	— 20 20 57·56	57·66	— 12·603	+ 0·40	...	...	...	...	...	...	...	...	...	...
1817*	88·98	4	— 25 36 11·76	11·95	— 12·603	+ 0·41	...	...	...	...	...	...	...	...	...	...
1818	86·72	6	— 23 30 17·81	18·11	— 12·499	+ 0·41	...	...	...	...	...	2772	...	8445	...	...
1819	91·24	12	— 65 56 45·50	45·48	— 12·438	+ 0·63	— 0·085	+0·11	...	362	2041	2770	620	8450	...	787
1820	92·40	10	+ 41 12 30·95	30·36	— 12·416	+ 0·25	— 0·014	+0·03	...	...	...	...	...	...	...	...

1797. $3^{m}\cdot7$, $6^{m}\cdot1$ $0''\cdot8$ 285° Observed as one mass.
1807. Probably binary.

1803. Proper Motion determined for this Catalogue.
1817. Magnitude from *Cordoba Durchmusterung*.

No.	Bradley or Lacaille.	Piazzi. 1800.	B.A.C. 1850.	C.G.A. 1875.	Star's Name.	Mag.	Mean Date. 1800+	No. of Obs.	Mean R.A. 1890·0.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_a.	Corr. for μ_a to 1890·0.
									h m s	s	s	s	s
1821	...	...	...	...	Lalande 28341.....	9·1†	90·43	4	15 27 40·680	+ 2·8054	+ 0·004	...	...
1822†	6422	98	5118	21084	Lupi .....γ	3·0	90·46	12	15 27 48·660	+ 3·9811	+ 0·033	—0·0054	+ 0·002
1823	1967	112	5130	...	53 Boötis .....ν^2	5·0	...	...	15 27 51	+ 2·1484	+ 0·002	—0·0034	...
1824	1968	115	5131	...	4 Coronæ Borealis .....θ	4·3	93·81	8	15 28 29·615	+ 2·4200	+ 0·002	—0·0055	+ 0·021
1825	...	...	...	21104	C.G.A. 21104	8½*	89·86	3	15 28 34·033	+ 3·5588	+ 0·019	...	...
1826	6436	...	5128	21111	Lacaille 6436	7·4	95·53	1	15 28 41·987	+ 3·5731	+ 0·020	...	...
1827	6403	...	...	21103	Lacaille 6403	6·5	94·57	4	15 29 8·028	+ 5·9566	+ 0·150	...	...
1828	1964	111	5134	21127	38 Libræ .....γ	4·0	88·56	34	15 29 22·365	+ 3·3447	+ 0·014	+0·0037	+ 0·005
1829	...	...	...	21124	Brisbane 5390.....	7½*	95·51	6	15 29 24·046	+ 3·9828	+ 0·033	...	...
1830	...	...	...	...	Lalande 28381.....	6·5	92·90	6	15 29 30·920	+ 3·0348	+ 0·008	...	...
1831	...	...	...	...	Cor. D. — 24° No. 12186	9·6‡	87·54	4	15 29 38·469	+ 3·5498	+ 0·019	...	...
1832	...	...	...	21134	C.G.A. 21134	7·7	95·52	6	15 29 42·996	+ 3·9704	+ 0·032	...	...
1833	...	...	...	...	C.P.D. — 41° No. 7272	8·4‡	95·55	5	15 29 43·866	+ 4·0090	+ 0·034	...	...
1834	...	...	...	21137	Brisbane 5392	7¾*	95·55	6	15 29 50·826	+ 3·9828	+ 0·033	...	...
1835	1973	121	5143	...	5 Coronæ Borealis .....α	2·4	90·20	5	15 30 1·766	+ 2·5300	+ 0·002	+0·0085	— 0·002
1836	...	...	...	21143	Lalande 28377.....	8½*	87·57	2	15 30 5·379	+ 3·5367	+ 0·018	...	...
1837†	1966*	116	5138	21146	Scorpii 3 H	3·9	93·69	8	15 30 20·727	+ 3·6316	+ 0·021	—0·0029	+ 0·011
1838	6443	113	5139	21153	Lupi .....ω	4·0	95·53	1	15 30 38·506	+ 4·0366	+ 0·035	—0·019*	+ 0·105
1839†	6437	...	5136	21150	Lacaille 6437	5·4	94·51	8	15 30 39·116	+ 4·4334	+ 0·052	—0·006	+ 0·027
1840	6438	...	...	21160	Lacaille 6438	7·2	90·76	13	15 31 5·747	+ 4·5964	+ 0·059	...	...
1841	...	...	5157	...	Lalande 28490..	6·7†	...	...	15 31 24	+ 2·0602	+ 0·003	...	...
1842	...	...	...	21193	C.G.A. 21193	7¾*	95·59	6	15 32 16·106	+ 4·0090	+ 0·033	...	...
1843	1972*	128	5160	21207	3 Lupi .....γ	4·4	86·77	5	15 32 46·758	+ 3·7959	+ 0·026	—0·006	— 0·019
1844	...	...	...	...	C.Z. XV. 2211	8*	95·52	5	15 33 9·446	+ 4·0236	+ 0·033	...	...
1845	6461	129	...	21218	Lacaille 6461	7·7*	...	...	15 33 17	+ 4·1174	+ 0·037	...	...
1846	6473	...	...	21224	Lacaille 6473	6·9*	88·26	4	15 33 26·049	+ 3·7133	+ 0·023	...	...
1847	6464	134	5165	21226	Lupi .....g	4·5	90·49	6	15 33 37·620	+ 4·1198	+ 0·037	—0·016*	+ 0·008
1848	1978*	138	5166	21234	42 Libræ	5·2	95·51	1	15 33 46·668	+ 3·5386	+ 0·018	—0·0031	+ 0·017
1849	1982	147	5168	...	54 Boötis.....φ	5·4	90·49	2	15 33 52·610	+ 2·1481	+ 0·002	+0·0052	— 0·003
1850	6485	...	5167	21249	Lacaille 6485	7½*	87·94	5	15 34 48·177	+ 3·6683	+ 0·021	...	...
1851	3242	152	5178	...	7 Coronæ Bor. .....*seq.* ζ	5·2	90·46	2	15 35 14·180	+ 2·2597	+ 0·002	—0·0022	+ 0·001
1852	6486	141	5171	21269	Lupi .....h	5·2	92·21	5	15 35 29·333	+ 3·8883	+ 0·028	...	...
1853	1981	145	5176	21276	43 Libræ .....κ	5·0	90·00	6	15 35 36·500	+ 3·4512	+ 0·016	—0·0046	0·000
1854	1980*	143	5173	21274	4 Lupi	4·8	88·74	4	15 35 40·429	+ 3·8111	+ 0·026	—0·0064	— 0·008
1855	...	...	...	...	Lalande 28640.....	6·6†	90·48	1	15 36 20·590	+ 2·2305	+ 0·002	...	...

1837. 39 Libræ in B.A.C.; υ Libræ in C.G.A.
1838. ι Lupi in B.A.C.
1843. ψ^1 Lupi in B.A.C. and C.G.A.
1847, 1852. B.A.C. gives no letter.
1854. ψ^2 Lupi in B.A.C. and C.G.A.

No.	Mean Date. 1800+	No. of Obs.	Mean Dec. 1890·0.	Sec. of Final Dec.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_δ.	Corr. for μ_δ to 1890·0.	Fallows and Henderson.	Johnson.	Cape Catalogues. 1840.	1850.	1860.	1880.	1885.	Melbourne, 1870 and 1880.
			° ′ ″	″	″	″	″	″								
1821	90·43	3	+ 14 14 16·55	16·27	— 12·368	+ 0·33	...	...	...	...	...	...	...	...	...	...
1822	90·81	11	— 40 47 46·78	46·86	— 12·358	+ 0·46	— 0·037	+0·03	255*	363	2046	2781	623	8464	1089	789
1823	93·57	7	+ 41 16 24·05	23·46	— 12·357	+ 0·25	— 0·017	+0·06	...	...	...	...	...	...	...	...
1824	93·81	8	+ 31 43 50·82	50·38	— 12·311	+ 0·28	— 0·02	+0·08	...	...	2049	...	...	...	1091	...
1825	89·86	3	— 24 44 9·20	9·25	— 12·307	+ 0·41	...	...	...	...	...	...	...	8470	...	...
1826	95·53	3	— 25 21 52·57	52·72	— 12·297	+ 0·42	...	...	...	...	...	2788	...	8473	...	...
1827	94·55	6	— 69 51 48·11	48·19	— 12·268	+ 0·69	...	...	...	...	...	...	...	8474	...	...
1828	89·05	41	— 14 25 19·53	19·71	— 12·251	+ 0·39	+ 0·019	+0·02	...	365	2050	2791	...	...	1092	822
1829	95·51	6	— 40 41 37·87	37·97	— 12·249	+ 0·47	...	...	...	...	...	...	...	8478	...	...
1830	92·90	6	+ 2 2 16·47	16·25	— 12·241	+ 0·36	...	...	...	...	...	...	...	...	...	...
1831*	87·54	4	— 24 15 18·08	18·34	— 12·232	+ 0·42	...	...	...	...	...	...	...	...	...	...
1832	95·52	6	— 40 16 35·38	35·49	— 12·227	+ 0·47	...	...	...	...	...	...	...	...	...	...
1833*	95·55	5	— 41 28 5·62	5·72	— 12·226	+ 0·47	...	...	...	...	...	...	...	...	...	...
1834	95·55	6	— 40 39 11·02	11·11	— 12·217	+ 0·47	...	...	...	...	...	...	...	8481	...	...
1835	90·20	5	+ 27 5 6·30	5·98	— 12·205	+ 0·30	— 0·094	+0·02	157	...	2056	2797	627	8483	1093	790*
1836	87·57	3	— 23 37 45·87	46·13	— 12·202	+ 0·41	...	...	...	...	...	...	...	...	...	...
1837*	93·69	8	— 27 46 12·36	12·53	— 12·183	+ 0·43	— 0·012	+0·04	...	366	2055	2793	625	8484	1094	...
1838*	95·53	3	— 42 12 19·12	19·23	— 12·161	+ 0·47	+ 0·11*	—0·61	...	...	2054	2794	626	8487	...	...
1839	94·51	8	— 52 0 24·16	32·37	— 12·161	+ 0·52	— 0·06	+0·27	...	...	2052	...	...	8486	...	...
1840	90·78	12	— 55 3 55·24	55·30	— 12·131	+ 0·54	...	...	...	...	...	...	...	8490	...	...
1841	93·47	6	+ 43 31 56·28	55·60	— 12·111	+ 0·25	...	...	...	...	...	...	...	...	...	...
1842	95·59	6	— 41 13 40·63	40·72	— 12·049	+ 0·47	...	...	...	...	...	...	...	...	...	...
1843*	86·77	5	— 34 3 7·49	7·77	— 12·013	+ 0·45	— 0·021	—0·07	...	...	2059	2807	...	8502	...	825
1844	95·52	5	— 41 35 8·43	8·54	— 11·986	+ 0·47	...	...	...	...	...	...	...	...	...	...
1845	90·48	1	— 44 15 49·02	49·07	— 11·979	+ 0·49	...	...	...	...	...	2810	...	8509	...	...
1846	87·84	6	— 30 51 16·10	16·27	— 11·968	+ 0·44	...	...	...	...	2062	...	...	8511	...	...
1847*	90·49	6	— 44 17 46·73	46·78	— 11·954	+ 0·49	— 0·29*	+0·14	...	...	2061	2811	631	8513	1097	...
1848	95·52	3	— 23 27 34·73	34·89	— 11·943	+ 0·42	— 0·012	+0·07	...	...	2063	2812	632	8516	...	...
1849	91·28	12	+ 40 42 42·88	42·34	— 11·936	+ 0·26	+ 0·052	—0·07	...	...	...	...	...	...	1098	...
1850	87·94	5	— 28 56 38·32	38·51	— 11·872	+ 0·44	...	...	...	...	...	2813	...	8523	...	...
1851	91·60	10	+ 36 59 35·72	35·25	— 11·841	+ 0·27	— 0·001	0·00	...	...	...	...	...	...	1099	...
1852*	91·93	6	— 37 4 15·54	15·60	— 11·823	+ 0·46	...	...	...	...	2064	2817	...	8528	...	791
1853	90·00	6	— 19 19 18·50	18·57	— 11·815	+ 0·41	— 0·097	0·00	...	368	2066	2821	633	8532	1100	...
1854*	88·74	4	— 34 21 23·16	23·29	— 11·810	+ 0·45	— 0·021	—0·03	...	...	2065	2819	...	8533	...	...
1855	92·87	6	+ 37 52 20·84	20·34	— 11·763	+ 0·27	...	...	...	...	...	...	...	...	...	...

1831, 1833. Magnitude from *Cordoba Durchmusterung*.

No.	Bradley or Lacaille.	Piazzi. 1800.	B.A.C. 1850.	C.G.A. 1875.	Star's Name.	Mag.	Mean Date. 1800+	No. of Obs.	Mean R.A. 1890·0.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_a.	Corr. for μ_a to 1890·0.
									h m s	s	s	s	s
1856	...	...	...	21292	Brisbane 5443	8½*	95·53	6	15 36 30·986	+ 4·0363	+ 0·033	...	...
1857	6495	...	...	21300	Lacaille 6495	7·5	88·80	4	15 36 37·697	+ 3·7028	+ 0·022	...	...
1858	6493	...	...	21309	Lacaille 6493.....*seq.*	6·7*	95·52	1	15 36 57·416	+ 4·0312	+ 0·033	...	...
1859	...	...	...	21313	Lalande 28603.....	6·8*	90·95	12	15 37 2·567	+ 3·3171	+ 0·012	...	...
1860	1991	162	5192	...	8 Coronæ Bor.(as one mass)γ	4·2	91·31	8	15 38 7·345	+ 2·5262	+ 0·003	—0·0082	+ 0·011
1861	...	...	...	...	Lalande 28707.....	7·5†	90·48	1	15 38 9·320	+ 2·0782	+ 0·003	...	...
1862	...	...	...	...	C.P.D. — 40° No. 7088..	8·5‡	95·53	6	15 38 45·746	+ 4·0098	+ 0·032	...	...
1863	1990	163	5196	...	24 Serpentis .....*a*	2·7	90·37	52	15 38 50·972	+ 2·9429	+ 0·006	+0·0079	— 0·003
1864	6509	...	5195	21343	Lacaille 6509	7·3*	87·54	5	15 38 59·211	+ 3·6951	+ 0·022	...	...
1865	...	...	...	...	C.Z. XV. 2693	9*	95·54	6	15 39 32·266	+ 4·0042	+ 0·031	...	...
1866	6514	161	5199	21360	Lacaille 6514	5·7	88·49	4	15 39 42·734	+ 3·8199	+ 0·025	...	...
1867	...	...	...	...	B.D. — 21° No. 4187 ...	8·8†	87·56	3	15 40 43·469	+ 3·4980	+ 0·016	...	...
1868	1996	170	5216	...	28 Serpentis .....*β*	3·8	89·64	11	15 41 6·599	+ 2·7623	+ 0·004	+0·0034	+ 0·001
1869	6532	...	5212	21396	Lacaille 6532.....	7·5	87·28	4	15 41 28·261	+ 3·5825	+ 0·018	...	...
1870	...	...	...	...	Lalande 28805.....	7·3†	92·93	5	15 42 44·490	+ 2·4115	+ 0·003	...	...
1871	...	...	...	...	W. B. (2) XV. 1068 ...	6·9†	...	...	15 43 46	+ 1·9673	+ 0·004	...	...
1872	2002	182	5234	...	35 Serpentis .....*ε*	4·3	90·22	9	15 43 47·317	+ 2·7023	+ 0·004	—0·0039	+ 0·001
1873*	2001	178	5230	21457	32 Serpentis .....*μ*	3·5	88·71	14	15 43 52·771	+ 3·1324	+ 0·009	—0·0077	— 0·010
1874	6553	...	5228	21455	Lacaille 6553	7·3*	88·50	4	15 43 57·131	+ 3·6119	+ 0·019	...	...
1875	...	...	...	...	C.Z. XV. 3020	8*	93·62	3	15 43 57·859	+ 4·0692	+ 0·032	...	...
1876†	1998*	174	5227	21454	5 Lupi .....λ	4·2	93·79	10	15 43 58·099	+ 3·8002	+ 0·024	—0·0023	+ 0·009
1877	2000*	177	5232	21469	1 Scorpii .....*b*	4·8	89·88	3	15 44 21·749	+ 3·5997	+ 0·018	—0·0058	— 0·001
1878	6484	...	...	21445	Lacaille 6484	6·7*	86·85	11	15 44 36·913	+ 8·1652	+ 0·335	...	...
1879	6404	...	...	21419	Lacaille 6404	7·8	94·58	5	15 44 40·613	+13·496	+ 1·218	...	...
1880*	2005	187	5245	...	37 Serpentis .....*ε*	3·7	88·56	9	15 45 19·916	+ 2·9789	+ 0·007	+0·0068	+ 0·010
1881	6562	...	5240	21489	Lacaille 6562	6·8*	88·25	4	15 45 25·327	+ 3·7035	+ 0·021	...	...
1882†	6533	...	5233	21484	Trianguli Australis...*β*	3·1	92·65	8	15 45 27·178	+ 5·2654	+ 0·086	—0·0302	+ 0·080
1883	6546	...	5242	21499	Lacaille 6546 .....*pr.*	6·1	91·48	6	15 46 19·421	+ 4·9934	+ 0·071	...	...
1884	2007	190	5251	21520	45 Libræ .....λ	5·0	89·67	6	15 46 56·890	+ 3·4758	+ 0·015	—0·0026	— 0·001
1885	2009*	191	5253	21529	Bradley 2009	5·6	95·52	2	15 47 19·588	+ 3·5755	+ 0·018	—0·0049	+ 0·027
1886	6579	192	5254	21530	Lacaille 6579	5·4	87·56	5	15 47 22·999	+ 3·5626	+ 0·017	—0·0031†	— 0·008
1887	2012*	195	5260	21546	3 Scorpii	6·0	90·51	7	15 48 3·230	+ 3·5934	+ 0·018	—0·0038	+ 0·002
1888	...	...	...	21547	Brisbane 5520	7·2	91·35	6	15 48 27·343	+ 5·0072	+ 0·070	...	...
1889	2014*	196	5265	21567	4 Scorpii	5·5	87·52	6	15 48 51·154	+ 3·6192	+ 0·018	—0·0060	— 0·015
1890	2021	211	5271	...	1 Herculis.....χ	4·5	...	...	15 48 52	+ 2·0332	+ 0·003	+0·0373	...

1876. χ Lupi in *Monthly Notices*, Vol. XLVII., B.A.C. and C.G.A.

No.	Mean Date. 1800+	No. of Obs.	Mean Dec. 1890·0.	Sec. of Final Dec.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_δ.	Corr. for μ_δ to 1890·0.	Fallows and Henderson.	Johnson.	Cape Catalogues. 1840.	1850.	1860.	1880.	1885.	Melbourne, 1870 and 1880.
			° ′ ″	″	s	s	″	″								
1856	95·53	6	− 41 39 35·29	35·39	− 11·750	+ 0·48	...	...	...	...	...	...	...	...	...	...
1857	88·80	4	− 30 11 0·22	0·38	− 11·742	+ 0·44	...	...	...	...	2070	...	...	8541	...	...
1858†	95·52	3	− 41 28 5·28	5·39	− 11·718	+ 0·48	...	...	...	...	...	...	...	8543	...	...
1859	90·95	12	− 12 42 8·80	8·94	− 11·713	+ 0·40	...	...	...	...	...	...	...	...	...	...
1860†	91·22	9	+ 26 38 39·94	39·62	− 11·636	+ 0·31	+ 0·034	−0·04	...	...	...	...	...	...	1102	...
1861	91·37	6	+ 42 24 8·04	7·45	− 11·634	+ 0·25	...	...	...	...	...	...	...	...	...	...
1862*	95·53	6	− 40 40 0·80	0·90	− 11·590	+ 0·48	...	...	...	...	...	...	...	...	...	...
1863	90·02	62	+ 6 46 19·73	19·45	− 11·584	+ 0·36	+ 0·056	0·00	*134*	...	2074	2830	637	8557	1104	794*
1864	87·54	5	− 29 41 39·85	40·08	− 11·575	+ 0·44	...	...	...	...	2073	2829	...	8558	...	...
1865	95·54	6	− 40 25 53·98	54·09	− 11·535	+ 0·48	...	...	...	...	...	...	...	...	...	...
1866	88·49	4	− 34 20 13·81	13·98	− 11·522	+ 0·46	...	...	...	...	2075	2833	...	8563	...	*828*
1867	87·56	3	− 21 11 21·58	21·85	− 11·450	+ 0·42	...	...	...	...	...	...	...	...	...	...
1868	89·64	11	+ 15 45 59·22	59·00	− 11·422	+ 0·34	− 0·035	−0·01	...	...	...	...	...	...	1106	...
1869	87·28	4	− 24 52 26·57	26·84	− 11·397	+ 0·43	...	...	...	...	...	2841	...	8580	...	...
1870	92·70	6	+ 30 54 24·28	23·90	− 11·305	+ 0·30	...	...	...	...	...	...	...	...	...	...
1871	93·03	6	+ 44 56 15·53	14·77	− 11·230	+ 0·24	...	...	...	...	...	...	...	...	...	...
1872	90·20	10	+ 18 28 53·95	53·72	− 11·229	+ 0·33	− 0·083	+0·02	...	...	...	...	...	...	1108	...
1873	89·55	20	− 3 5 35·10	35·31	− 11·222	+ 0·38	− 0·013	−0·01	...	372	...	2856	...	8604	1109	*829*
1874	88·50	4	− 25 57 12·94	13·11	− 11·217	+ 0·44	...	...	...	...	...	2853	...	8603	...	...
1875	93·62	3	− 41 57 59·34	59·60	− 11·216	+ 0·50	...	...	...	...	...	...	...	...	...	...
1876*	93·79	10	− 33 17 29·03	29·18	− 11·216	+ 0·46	− 0·032	+0·12	...	370	2087	2852	643	8602	...	797
1877	89·88	3	− 25 24 57·73	57·94	− 11·187	+ 0·44	− 0·038	0·00	...	373	2090	2857	644	8608	...	...
1878	86·76	20	− 77 42 3·41	3·56	− 11·169	+ 0·99	...	...	...	...	...	...	...	8601	1111	...
1879	94·77	12	− 83 55 7·14	7·17	− 11·164	+ 1·64	...	...	...	...	...	...	...	8596	...	...
1880	90·58	19	+ 4 48 33·26	33·04	− 11·117	+ 0·37	+ 0·059	−0·03	...	...	...	...	...	8617	1115	*831*
1881	88·25	4	− 29 33 7·89	8·07	− 11·110	+ 0·45	...	...	...	...	2092	2861	...	8615	...	...
1882	92·65	8	− 63 5 25·12	25·18	− 11·108	+ 0·64	− 0·404	+1·07	256*	371	2088	2858	645	8612	1114	798
1883†	91·48	6	− 59 50 54·22	54·22	− 11·045	+ 0·61	...	...	...	...	...	2862	...	8620	...	...
1884	89·67	6	− 19 50 15·82	15·92	− 10·999	+ 0·43	− 0·013	0·00	...	375	2098	2867	646	...	1119	...
1885	95·52	3	− 24 12 16·24	16·39	− 10·970	+ 0·44	− 0·03	+0·17	...	...	2099	2868	...	8630	...	...
1886*	87·56	5	− 23 38 58·41	58·65	− 10·967	+ 0·44	− 0·017†	−0·04	...	...	2101	2869	...	8632	...	...
1887	90·51	8	− 24 55 1·23	1·29	− 10·918	+ 0·44	− 0·03	+0·02	...	...	...	2873	...	8640	...	...
1888	91·35	6	− 59 52 29·67	29·71	− 10·889	+ 0·62	...	...	...	...	...	...	...	8642	...	...
1889	87·52	6	− 25 56 27 32	27·54	− 10·859	+ 0·45	− 0·04	−0·10	...	...	2104	2877	...	8647	...	...
1890	92·10	8	+ 42 45 36·49	35·90	− 10·859	+ 0·26	+ 0·601	−1·26	...	...	...	...	...	...	...	...

1858. $6^m·7$, $8^m·9$ 4″ 350°. Brighter star observed.
1860. Very close binary; $4^m·3$, $7^m·3$. Observed as one mass.
1862. Magnitude from *Cordoba Durchmusterung*.
1883. $6^m·1$, $9^m·6$. 2″ — 4″ 98°. Brighter star observed.
1886. Proper Motion from Newcomb's *Catalogue of* 1098 *Standard Stars*.

No.	Bradley or Lacaille.	Piazzi. 1800.	B.A.C. 1850.	C.G.A. 1875.	Star's Name.	Mag.	Mean Date. 1800+	No. of Obs.	Mean R.A. 1890·0.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_a.	Corr. for μ_a to 1890·0.
									h m s	s	s	s	s
1891	6592	204	5268	21586	Lupi ..... *pr.* ξ	5·6*	95·56	12	15 49 51·507	+3·8225	+ 0·023	...	...
1892	6590	...	...	21588	Lacaille 6590	6·9*	88·03	6	15 49 56·849	+3·8798	+ 0·025	...	...
1893†	2017*	207	5272	21592	5 Scorpii ..... ρ	4·0	90·24	12	15 50 5·515	+3·6949	+ 0·020	—0·0035	+ 0·001
1894	2023	219	5284	...	41 Serpentis ..... γ	4·0	91·64	12	15 51 22·355	+2·7475	+ 0·004	+0·0194	— 0·032
1895	2028	226	5298	...	4 Herculis	5·7	88·58	2	15 51 48·340	+2·0200	+ 0·004	—0·001	— 0·001
1896†	2020*	216	5289	21638	6 Scorpii ..... π	3·1	90·66	6	15 52 11·783	+3·6208	+ 0·018	—0·0030	+ 0·002
1897	...	...	...	...	C.P.D. — 25° No. 5707..	9·6‡	87·54	3	15 52 15·179	+3·6265	+ 0·018	...	...
1898	6617	...	...	21641	Lacaille 6617	7·0*	87·72	6	15 52 20·952	+3·8009	+ 0·022	...	...
1899	6619	217	5292	21653	Lupi ..... η	3·8	92·55	6	15 52 49·869	+3·9629	+ 0·027	...	...
1900	2029	229	5302	...	13 Coronæ Bor. (S. Star) s	4·1	91·36	11	15 53 1·995	+2·4883	+ 0·003	—0·0074	+ 0·010
1901*	2024	225	5303	21685	7 Scorpii ..... δ	2·5	87·62	8	15 53 49·704	+3·5400	+ 0·016	—0·0021	— 0·005
1902	2026	228	5304	21692	49 Libræ	5·6	90·00	12	15 54 9·188	+3·4040	+ 0·013	—0·0474	0·000
1903	6615	...	5301	21694	Normæ ..... ι^1	4·8	92·33	7	15 54 35·219	+4·8621	+ 0·060	...	...
1904	2030	231	5306	21711	50 Libræ	5·6	89·99	13	15 54 51·286	+3·2351	+ 0·010	—0·0025	0·000
1905	...	...	...	...	C.P.D. — 42° No. 7267..	9·7‡	93·62	3	15 55 2·319	+4·1046	+ 0·031	...	...
1906	6644	232	5311	21728	Lacaille 6644	5·1	95·52	2	15 56 5·157	+3·9775	+ 0·027	...	...
1907	6656	...	5312	21744	Lacaille 6656	7½*	87·14	5	15 56 34·461	+3·6423	+ 0·018	...	...
1908	...	...	...	...	C.Z. XV. 3944	9*	87·57	3	15 57 2·259	+3·6501	+ 0·018	...	...
1909†	6664	242	5323	21792	Normæ ..... δ	4·8	90·13	11	15 58 43·007	+4·2214	+ 0·033	—0·0026	0·000
1910*	2034	251	5329	21805	8 Scorpii ..... *pr.* β	2½*	89·53	19	15 59 2·425	+3·4816	+ 0·014	—0·0026	— 0·001
1911†	6678	248	5331	21810	Lupi ..... θ	4·4	91·12	12	15 59 22·096	+3·9279	+ 0·024	—0·0037	+ 0·004
1912	6690	...	...	21832	Lacaille 6690	8*	87·51	4	16 0 8·739	+3·8203	+ 0·022	...	...
1913	...	...	...	...	W. B. XV. 1120	9·1†	87·55	4	16 0 56·170	+3·3192	+ 0·011	...	...
1914†	2040	263	5342	21849	10 Scorpii ..... ω^2	4·6	90·69	12	16 0 57·218	+3·5080	+ 0·014	+0·0013	— 0·001
1915	...	...	...	...	W. B. XV. 1134	8·4†	87·58	3	16 1 29·630	+3·3040	+ 0·011	...	...
1916	6706	...	5355	21875	Lacaille 6706	7*	89·75	4	16 2 31·475	+3·8107	+ 0·021	...	...
1917	6703	...	5357	21880	Lacaille 6703	7·2	91·18	6	16 2 44·000	+4·0450	+ 0·027	...	...
1918	6711	271	5358	21887	Lacaille 6711	5·9	88·99	4	16 2 49·449	+3·8370	+ 0·022	...	...
1919	...	...	...	...	B.D. — 11° No. 4080 ...	9·0†	87·59	1	16 3 16·080	+3·3049	+ 0·010	...	...
1920	6623	...	5339	21881	Apodis ..... δ^1	4·7	86·84	9	16 3 55·688	+8·7760	+ 0·338	...	...
1921	6628	...	5340	21886	Apodis ..... δ^2	5·2	87·39	9	16 4 2·837	+8·7637	+ 0·336	...	...
1922	...	...	...	...	W. B. XVI. 12	9·1†	87·59	2	16 4 5·110	+3·3069	+ 0·011	...	...
1923†	6712	...	5373	21921	Normæ ..... κ	5·1	90·79	12	16 4 48·222	+4·7056	+ 0·048	—0·006	+ 0·005
1924	6728	...	5378	21934	Lacaille 6728	7½*	87·13	5	16 4 49·227	+3·6659	+ 0·017	...	...
1925	6718	...	...	21933	Lacaille 6718	7·4*	91·67	6	16 5 0·254	+4·4497	+ 0·039	...	...

1901. Fundmental star for Southern Zones.

No.	Mean Date. 1800+	No. of Obs.	Mean Dec. 1890·0.	Sec. of Final Dec.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_δ.	Corr. for μ_δ to 1890·0.	Fallows and Henderson.	Johnson.	Cape Catalogues. 1840.	1850.	1860.	1880.	1885.	Melbourne, 1870 and 1880.
			° ′ ″	″	″	″	″	″								
1891	95·56	13	— 33 38 36·73	36·85	—10·785	+ 0·47	...	...	...	...	2106	2880	649	8655	...	*833*
1892	88·03	6	— 35 36 20·88	21·02	—10·778	+ 0·48	...	...	...	...	...	...	...	8658	...	...
1893	90·24	12	— 28 53 32·30	32·39	—10·768	+ 0·46	— 0·025	+0·01	...	377	2108	2882	651	8659	...	800
1894	91·64	12	+ 16 1 13·50	13·27	—10·673	+ 0·34	— 1·286	+2·11	...	...	...	...	...	8672	1121	...
1895	91·18	8	+ 42 53 12·57	11·94	—10·641	+ 0·26	— 0·009	+0·01	...	...	...	...	...	...	...	...
1896	90·66	6	— 25 47 48·82	48·93	—10·612	+ 0·45	— 0·037	+ 0·02	...	378	2115	2893	653	8676	1123	803
1897*	87·54	3	— 26 1 42·80	43·06	—10·608	+ 0·45	...	...	...	...	...	...	...	...	...	...
1898	87·69	7	— 32 41 44·73	44·93	—10·600	+ 0·47	...	...	...	...	...	...	...	8677	...	...
1899	92·55	6	— 38 4 53·25	53·32	—10·565	+ 0·50	...	...	...	380	2117	2896	654	8684	1124	804
1900†	91·00	12	+ 27 11 48·21	47·87	—10·550	+ 0·31	— 0·062	+0·06	...	...	...	...	...	...	1125	...
1901*	87·27	11	— 22 18 28·88	29·08	—10·490	+ 0·44	— 0·036	—0·10	258*	381	2122	2903	655	8696	1126	806*
1902	90·00	12	— 16 12 32·07	32·19	—10·466	+ 0·43	— 0·368	0·00	259	...	2123	2904	...	...	...	...
1903	92·33	7	— 57 27 51·85	51·85	—10·434	+ 0·61	...	...	...	...	2121	2902	...	8700	...	...
1904	89·99	13	— 8 5 58·91	59·06	—10·414	+ 0·41	— 0·012	0·00	...	...	2125	2906	...	...	1127	...
1905*	93·62	3	— 42 4 56·00	56·26	—10·400	+ 0·52	...	...	...	...	...	...	...	...	...	...
1906	95·50	3	— 38 17 40·45	40·57	—10·321	+ 0·50	...	...	...	...	2126	2908	...	8715	...	*836*
1907	87·04	6	— 26 24 17·54	17·80	—10·285	+ 0·46	...	...	...	...	...	2909	...	8718	...	...
1908	87·57	3	— 26 41 23·42	23·67	—10·250	+ 0·46	...	...	...	...	...	...	...	...	...	...
1909	90·13	11	— 44 52 26·34	26·37	—10·123	+ 0·54	— 0·004	0·00	...	382	2129	2915	659	8737	...	810
1910†	90·61	28	— 19 30 13·58	13·73	—10·100	+ 0·44	— 0·027	+0·02	260*	385	2133	2920	660	8743	1129	811*
1911	91·12	12	— 36 30 7·63	7·68	—10·074	+ 0·50	— 0·037	+0·04	...	384	2132	2921	661	8745	...	...
1912	87·51	4	— 32 50 57·12	57·32	—10·015	+ 0·49	...	...	...	...	...	...	...	8756	...	...
1913	87·55	4	— 12 0 6·99	7·28	— 9·956	+ 0·42	...	...	...	...	...	...	...	...	...	...
1914	90·69	12	— 20 34 15·54	15·63	— 9·954	+ 0·45	— 0·054	+0·04	...	387	2138	2929	...	8764	...	...
1915	87·58	3	— 11 16 5·03	5·32	— 9·913	+ 0·42	...	...	...	...	...	...	...	...	...	...
1916	89·75	4	— 32 21 20·89	21·05	— 9·835	+ 0·49	...	...	...	...	...	2937	...	8776	...	*840*
1917	91·18	6	— 39 50 14·71	14·80	— 9·819	+ 0·52	...	...	...	...	...	2940	...	8779	...	...
1918	88·99	4	— 33 15 10·98	11·13	— 9·812	+ 0·49	...	...	...	...	2140	2941	...	8781	...	...
1919	87·59	1	— 11 15 37·28	37·57	— 9·778	+ 0·42	...	...	...	...	...	...	...	...	...	...
1920	87·26	19	— 78 25 0·08	0·22	— 9·728	+ 1·12	...	...	...	...	2136	2927	663	8784	1132	814*
1921	87·57	11	— 78 23 19·99	20·03	— 9·718	+ 1·12	...	...	...	...	...	2928	665	8786	...	...
1922	87·59	2	— 11 19 56·65	56·94	— 9·715	+ 0·42	...	...	...	...	...	...	...	...	...	...
1923	90·79	12	— 54 20 41·86	41·87	— 9·661	+ 0·60	— 0·05	+ 0·04	...	...	2144	2950	...	8798	...	...
1924	87·13	5	— 26 51 46·83	47·08	— 9·659	+ 0·47	...	...	...	...	...	2954	...	8800	...	...
1925	91·67	6	— 49 35 56·58	56·58	— 9·645	+ 0·57	...	...	...	...	...	...	...	8803	...	...

1897. Magnitude from *Cordoba Durchmusterung.*
1905. Magnitude from Cape observations.

1900. $4^m{\cdot}1$, 13^m. $1''{\cdot}9$ 0°. Fainter star not seen.
1910. Physical pair; $2^m{\cdot}5$, $9^m{\cdot}6$. Fainter star not seen. β^2 not observed.

No.	Bradley or Lacaille.	Piazzi. 1800.	B.A.C. 1850.	C.G.A. 1875.	Star's Name.	Mag.	Mean Date. 1800+	No. of Obs.	Mean R.A. 1890·0.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_a.	Corr. for μ_a to 1890·0.
									h m s	s	s	s	s
1926	2061	13	5388	...	11 Herculis.....ϕ	4·2	87·56	1	16 5 18·120	+ 1·8904	+ 0·004	—0·010	— 0·024
1927†	6701	...	5375	21939	Trianguli Australis....δ	4·0	93·24	8	16 5 25·728	+ 5·4158	+ 0·079	—0·0025	+ 0·008
1928	2051*	287	5380	21948	12 Scorpii.....*pr.*	5·5	91·83	6	16 5 28·117	+ 3·6999	+ 0·018	—0·0065	+ 0·012
1929	2052*	2	5381	21949	13 Scorpii .....c^1	4·7	95·52	2	16 5 31·558	+ 3·6871	+ 0·018	+0·0002	— 0·001
1930	2055	4	5382	21954	14 Scorpii (as one mass)..ν	4½*	93·00	8	16 5 36·089	+ 3·4807	+ 0·013	—0·0028	+ 0·008
1931	6747	...	5393	21978	Lacaille 6747	7·1*	88·05	4	16 7 14·371	+ 3·7910	+ 0·020	...	...
1932	6755	14	5403	22004	Lacaille 6755	6·4*	95·53	1	16 8 13·368	+ 3·6282	+ 0·016	—0·004	+ 0·022
1933	...	...	5408	22007	Lalande 29552.....	7·0*	91·02	6	16 8 18·325	+ 3·4621	+ 0·013	...	...
1934*	2065	21	5414	22017	1 Ophiuchi .....δ	2·8	89·97	33	16 8 34·848	+ 3·1429	+ 0·008	—0·0049	0·000
1935	...	...	...	...	B.D. — 9° No. 4337.....	9·3†	87·56	3	16 9 29·070	+ 3·2729	+ 0·010	...	...
1936	2074	38	5432	...	17 Coronæ Bor. .....*seq.* σ	5·6	91·45	11	16 10 33·514	+ 2·2675	+ 0·003	—0·0258	+ 0·037
1937	2072	34	5426	...	16 Herculis	5·9	89·67	8	16 10 36·248	+ 2·6616	+ 0·004	—0·0059	— 0·002
1938	...	...	...	...	Lalande 29647.....	8·7†	87·56	3	16 10 48·600	+ 3·2428	+ 0·009	...	...
1939	6778	...	5430	22077	Lacaille 6778	7·2*	90·27	4	16 11 28·288	+ 3·6990	+ 0·017	...	...
1940†	6764	...	5425	22075	Normæ .....γ^2	4·2	91·75	12	16 11 36·567	+ 4·4850	+ 0·038	—0·0199	+ 0·035
1941	6772	29	5427	22082	Normæ .....λ	5·6	95·52	2	16 11 38·217	+ 4·1595	+ 0·028	...	...
1942	...	...	...	...	W. B. XVI. 187	8·5†	87·57	2	16 12 3·100	+ 3·2274	+ 0·009	...	...
1943*	2073	41	5437	22111	2 Ophiuchi .....ε	3·4	90·00	18	16 12 30·039	+ 3·1647	+ 0·008	+0·0040	0·000
1944	...	...	...	22103	Brisbane 5682.....	8*	88·56	4	16 12 43·121	+ 4·6107	+ 0·041	...	...
1945	...	...	...	...	B.D. — 8° No. 4206.....	9·5†	87·56	3	16 13 4·120	+ 3·2443	+ 0·009	...	...
1946	...	...	...	...	B.D. — 7° No. 4259.....	9·6†	87·55	3	16 14 9·100	+ 3·2279	+ 0·009	...	...
1947†	2077*	50	5447	22158	20 Scorpii.....σ	3·0	88·75	12	16 14 30·077	+ 3·6394	+ 0·015	—0·0027	— 0·003
1948	6750	...	...	22166	Lacaille 6750	7·3	92·17	6	16 15 54·778	+ 7·5414	+ 0·196	...	...
1949	...	...	5460	...	Lalande 29829.....	5·5	...	...	16 16 9	+ 2·0650	+ 0·004	...	...
1950	2086	73	5463	...	22 Herculis.....τ	3·9	...	...	16 16 26	+ 1·8019	+ 0·005	—0·005	...
1951†	6810	55	...	22194	Lacaille 6810	5·3	92·50	10	16 16 34·234	+ 4·0444	+ 0·024	+0·0042	— 0·011
1952†	6727	...	5439	22170	Apodis .....γ	3·9	90·68	12	16 16 35·784	+ 9·0654	+ 0·322	—0·0459	+ 0·031
1953†	6771	...	5450	22185	Trianguli Australis...ζ	5·0	93·60	10	16 16 38·554	+ 6·3488	+ 0·117	+0·0326	— 0·117
1954	2084	66	5466	...	20 Herculis.....γ	3·8	88·00	3	16 17 4·030	+ 2·6481	+ 0·004	—0·0049	— 0·010
1955	...	...	...	...	W. B. (2) XVI. 488.....	7·0†	90·49	1	16 17 13·410	+ 1·8320	+ 0·005	...	...
1956	6826	60	5464	22222	Lacaille 6826	5·4	87·36	5	16 17 45·355	+ 3·7533	+ 0·017	+0·004	+ 0·011
1957	2087	74	5473	...	19 Coronæ Borealis .....ξ	4·5	91·22	6	16 17 48·655	+ 2·3435	+ 0·003	—0·006	+ 0·007
1958	6441	...	...	22090	Lacaille 6441	6·4	95·65	12	16 17 58·328	+29·329	+ 5·059	...	...
1959	2089	79	5484	...	23 Herculis	6·1	94·08	6	16 18 43·123	+ 2·3000	+ 0·003	+0·0009	— 0·004
1960	2085	75	5481	...	21 Herculis.....o	5·7	90·38	6	16 18 49·318	+ 2·9197	+ 0·006	—0·0033	+ 0·001

1928. c^1 Scorpii in B.A.C. and C.G.A.

1929. c^2 Scorpii in B.A.C. and C.G.A.

No.	Mean Date. 1800+	No. of Obs.	Mean Dec. 1890·0.	Sec. of Final Dec.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_δ.	Corr. for μ_δ to 1890·0.	Fallows and Henderson.	Johnson.	Cape Catalogues. 1840.	1850.	1860.	1880.	1885.	Melbourne, 1870 and 1880.
			° ′ ″	″	″	″	″	″								
1926	92·17	8	+ 45 13 26·04	25·26	— 9·622	+ 0·25	+ 0·043	—0·09	...	...	...	...	...	...	...	*842*
1927	93·24	8	— 63 24 12·17	12·17	— 9·612	+ 0·70	— 0·016	+0·05	...	389	2145	2952	...	8805	...	816
1928†	91·83	6	— 28 7 50·54	50·66	— 9·609	+ 0·48	— 0·053	+0·10	...	...	2148	2956	...	8806	...	817
1929*	95·52	3	— 27 38 25·20	25·34	— 9·604	+ 0·48	— 0·022	+0·12	...	390	2149	2957	...	8807	1135	818
1930†	92·67	9	— 19 10 27·47	27·64	— 9·599	+ 0·45	— 0·013	+0·03	262	391	2152	2959	667	8809	1136	819
1931	88·05	4	— 31 22 27·82	27·96	— 9·473	+ 0·49	...	...	...	...	...	2966	...	8823	...	...
1932	95·53	3	— 25 11 49·10	49·25	— 9·397	+ 0·47	— 0·01	+0·06	...	...	...	2975	...	8830	...	...
1933	91·02	6	— 18 15 9·72	9·83	— 9·391	+ 0·45	...	...	...	...	...	2977	...	...	...	...
1934	90·59	51	— 3 24 38·26	38·46	— 9·369	+ 0·41	— 0·137	+0·08	263*	393	...	2981	671	8838	1137	821*
1935	87·56	3	— 9 36 6·42	6·70	— 9·300	+ 0·43	...	...	...	...	...	...	...	...	...	...
1936†	91·42	12	+ 34 8 15·76	15·34	— 9·216	+ 0·30	— 0·061	+0·09	...	...	...	...	...	...	...	...
1937	89·67	8	+ 19 5 10·17	9·94	— 9·213	+ 0·35	— 0·084	—0·03	...	...	...	...	...	...	...	...
1938	87·57	4	— 8 9 21·61	21·91	— 9·197	+ 0·42	...	...	...	...	...	...	...	...	...	...
1939	90·27	4	— 27 46 11·32	11·42	— 9·145	+ 0·48	...	...	...	...	...	2992	...	8858	...	...
1940	91·87	11	— 49 53 5·00	5·05	— 9·134	+ 0·59	— 0·062	+0·12	...	396	2162	2989	673	8859	1140	823
1941	95·52	3	— 42 24 13·07	13·18	— 9·131	+ 0·54	...	...	...	...	2163	2990	...	8860	...	...
1942	87·57	2	— 7 24 38·55	38·85	— 9·100	+ 0·42	...	...	...	...	...	...	...	...	...	...
1943	90·37	30	— 4 25 25·81	26·01	— 9·065	+ 0·42	+ 0·034	—0·01	264*	398	...	2997	...	...	1141	*846*
1944	88·56	4	— 52 12 9·99	10·05	— 9·048	+ 0·60	...	...	...	...	...	...	...	8868	...	...
1945	87·57	4	— 8 11 16·71	17·01	— 9·021	+ 0·42	...	...	...	...	...	...	...	...	...	...
1946	87·55	3	— 7 23 55·22	55·51	— 8·936	+ 0·42	...	...	...	...	...	...	...	...	...	...
1947	88·75	12	— 25 19 41·13	41·30	— 8·908	+ 0·48	— 0·025	—0·03	...	399	2174	3005	679	8887	1143	...
1948	92·17	6	— 74 57 12·67	12·61	— 8·797	+ 0·99	...	...	...	...	...	...	...	8893	...	...
1949	93·27	6	+ 39 58 20·05	19·50	— 8·779	+ 0·27	...	...	...	...	...	...	...	...	...	...
1950	93·25	8	+ 46 34 32·81	31·93	— 8·758	+ 0·24	+ 0·036	—0·12	...	...	2181	...	...	...	1145	*848*
1951	92·50	10	— 38 56 5·56	5·65	— 8·746	+ 0·53	— 0·019	+0·05	...	...	...	...	...	8904	...	...
1952	88·89	22	— 78 38 53·15	53·26	— 8·744	+ 1·19	— 0·076	—0·08	...	397	2165	2999	677	8896	1144	827
1953	93·60	10	— 69 50 5·59	5·60	— 8·740	+ 0·84	+ 0·11	—0·40	...	...	2173	3007	...	8902	...	...
1954	90·80	5	+ 19 24 42·95	42·64	— 8·707	+ 0·35	+ 0·048	—0·04	...	...	...	...	...	8915	1146	*851*
1955	93·19	3	+ 45 50 21·50	20·67	— 8·695	+ 0·25	...	...	...	...	...	...	...	...	...	...
1956	87·36	5	— 29 26 46·09	46·32	— 8·653	+ 0·50	— 0·11	—0·29	...	...	2178	3013	...	8921	...	...
1957	91·22	6	+ 31 8 51·61	50·27	— 8·648	+ 0·31	+ 0·115	—0·14	...	...	...	...	...	...	...	...
1958	95·65	12	— 87 22 8·34	8·32	— 8·635	+ 3·86	...	...	...	...	...	...	...	8880	...	...
1959	94·08	6	+ 32 35 23·86	23·42	— 8·576	+ 0·31	— 0·017	+0·07	...	...	...	...	...	...	...	...
1960	90·38	6	+ 7 12 10·40	10·26	— 8·568	+ 0·39	+ 0·024	—0·01	...	...	...	...	...	...	...	...

1928. $5^m·5$, $8^m·5$ 4″·0 79°. Brighter star observed.
1930. $4^m·7$, $6^m·2$ 0″·7 2°. Observed as one mass.
1936. Binary ; $5^m·6$, $6^m·7$. Brighter star observed.

No.	Bradley or Lacaille.	Piazzi. 1800.	B.A.C. 1850.	C.G.A. 1875.	Star's Name.	Mag.	Mean Date. 1800+	No. of Obs.	Mean R.A. 1890·0.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_a.	Corr. for μ_a to 1890·0.
									h m s	s	s	s	s
1961	6837	...	5476	22241	Lacaille 6837 (as one mass)	7¾*	88·73	5	16 18 53·647	+ 3·7611	+ 0·017	...	...
1962	...	...	...	...	C.Z. XVI. 1303	8½*	93·62	3	16 19 30·149	+ 4·1706	+ 0·026	...	...
1963	...	...	...	...	B.D. — 5° No. 4293 ...	8·4†	87·55	2	16 19 58·510	+ 3·1965	+ 0·008	...	...
1964	6545	...	5412	22180	Lacaille 6545	6·0	91·70	46	16 20 2·103	+21·103	+ 2·391	—0·004†	+ 0·007
1965	...	...	...	...	C.Z. XVI. 1357	9*	87·60	3	16 20 24·789	+ 3·7506	+ 0·017	...	...
1966†	6824	...	5486	22277	Lacaille 6824	5·1	91·80	10	16 21 2·928	+ 5·2984	+ 0·062	—0·008	+ 0·014
1967†	6841	...	5492	22297	Lacaille 6841	5·4	92·01	12	16 21 44·082	+ 4·3315	+ 0·030	—0·003	+ 0·006
1968*	2091*	84	5498	22314	21 Scorpii (as one mass) α	1·1	86·15	13	16 22 39·751	+ 3·6715	+ 0·015	—0·0022	— 0·008
1969	...	...	...	...	B.D. — 4° No. 4118 ...	9·2†	87·56	3	16 23 46·630	+ 3·1805	+ 0·008	...	...
1970	6854	...	...	22340	Lacaille 6854	5·5	95·52	2	16 24 3·107	+ 4·1561	+ 0·025	...	...
1971†	6859	92	5508	22347	Scorpii .....N	4·5	89·57	11	16 24 11·644	+ 3·9110	+ 0·019	—0·0049	— 0·002
1972	2102	105	5523	...	30 Herculis.....g	Var.	...	...	16 25 2	+ 1·9659	+ 0·004	0·0000	...
1973	...	...	...	...	C.Z. XVI. 1653	9*	87·57	3	16 25 7·289	+ 3·7740	+ 0·016	...	...
1974	2097	100	5520	...	10 Ophiuchi(as one mass)λ	4·0	90·11	18	16 25 21·922	+ 3·0249	+ 0·006	—0·0027	0·000
1975	2100	103	5525	...	27 Herculis.....β	2·8	92·18	11	16 25 29·453	+ 2·5844	+ 0·004	—0·0090	+ 0·020
1976	6871	...	...	22380	Lacaille 6871 (as one mass)	7¼*	89·02	4	16 25 52·738	+ 3·8775	+ 0·018	...	...
1977†	6867	95	5521	22390	Normæ .....μ	5·2	91·71	11	16 26 15·975	+ 4·2492	+ 0·026	—0·0008	+ 0·001
1978	2107	118	5535	...	34 Herculis	6·1	...	...	16 27 5	+ 1·6491	+ 0·006	—0·007	...
1979†	6817	...	5510	22393	Apodis .....β	4·2	88·00	18	16 27 23·004	+ 8·5201	+ 0·241	—0·096	— 0·192
1980†	2103*	113	5539	22451	23 Scorpii .....τ	2·9	89·33	12	16 29 2·000	+ 3·7277	+ 0·015	—0·0030	— 0·002
1981	2110	120	5541	...	32 Herculis .....pr.	6·9†	91·31	9	16 29 11·939	+ 2·3393	+ 0·003	—0·0047	+ 0·006
1982	2113	132	5552	...	35 Herculis.....σ	4·3	87·67	3	16 30 33·357	+ 1·9331	+ 0·004	—0·0020	— 0·005
1983*	2109	123	5548	22491	13 Ophiuchi .....ζ	2·8	89·31	26	16 31 6·057	+ 3·2983	+ 0·009	—0·0007	0·000
1984	...	...	...	22514	Lalande 30232.....	6·0	91·73	5	16 32 8·074	+ 3·2097	+ 0·008	...	...
1985	6881	...	5544	22504	Lacaille 6881	6·6*	90·89	6	16 32 14·171	+ 6·0248	+ 0·083	...	...
1986	...	...	...	22539	W.B. XVI. 592	7·0*	93·47	6	16 32 52·840	+ 3·0944	+ 0·007	...	...
1987	...	...	5568	...	Lalande 30326.....	6·0	...	...	16 32 59	+ 1·7485	+ 0·005	...	...
1988	6926	...	5564	22549	Lacaille 6926	8½*	86·82	4	16 33 20·994	+ 3·6743	+ 0·014	...	...
1989	6917	...	...	22556	Lacaille 6917	7·2	90·22	3	16 33 52·140	+ 4·3227	+ 0·026	...	...
1990	6940	...	5571	22576	Lacaille 6940	6·3*	95·53	2	16 34 56·068	+ 3·6337	+ 0·013	...	...
1991	6933	...	...	22583	Lacaille 6933 (as one mass)	6·9*	91·16	11	16 35 7·388	+ 4·0070	+ 0·020	...	...
1992*	2114	143	5579	22588	24 Scorpii	5·2	86·84	4	16 35 12·681	+ 3·4662	+ 0·010	—0·0027	— 0·008
1993	...	...	...	...	W.B. (2) XVI. 1075 ...	7·2†	90·48	1	16 35 20·190	+ 2·0787	+ 0·004	...	...
1994	...	...	...	22597	Lalande 30346.....	6·5*	94·16	8	16 35 31·160	+ 3·0896	+ 0·006	...	...
1995	6906	...	5566	22582	Lacaille 6906	5·3	93·02	6	16 35 35·947	+ 5·9971	+ 0·078	...	...

1964. Identical with Brisbane 5607.

1971. B.A.C. gives no letter.

1992. B.A.C. assigns to Ophiuchus.

No.	Mean Date. 1800+	No. of Obs.	Mean Dec. 1890·0.	Sec. of Final Dec.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_δ.	Corr. for μ_δ to 1890·0.	Fallows and Henderson.	Johnson.	Cape Catalogues. 1840.	1850.	1860.	1880.	1885.	Melbourne, 1870 and 1880.
			° ′ ″	″	″	″	′	′								
1961†	88·73	5	— 29 40 3·58	3·74	— 8·562	+ 0·50	...	...	...	...	...	3023	...	8932	...	...
1962	93·62	3	— 42 13 2·62	2·88	— 8·514	+ 0·55	...	...	...	...	...	...	...	...	...	...
1963	87·53	3	— 5 50 35·90	36·19	— 8·477	+ 0·43	...	...	...	...	...	...	...	...	...	...
1964*	90·08	135	— 86 9 19·64	19·61	— 8·471	+ 2·79	+ 0·014†	0·00	...	388	2153	2980	674	8914	1148	825*
1965	87·60	3	— 29 12 48·56	48·82	— 8·442	+ 0·50	...	...	...	...	...	3029	...	...	...	...
1966	91·80	10	— 61 23 19·85	19·81	— 8·391	+ 0·71	— 0·024	+0·04	...	...	2185	3028	...	8942	...	830
1967	92·01	12	— 45 59 53·59	53·66	— 8·337	+ 0·58	0·00	0·00	...	...	2186	3033	...	8947	...	...
1968†	86·15	13	— 26 11 13·47	13·75	— 8·263	+ 0·49	— 0·028	—0·11	267*	404	2187	3037	684	8954	1150	832*
1969	87·58	4	— 5 3 15·82	16·13	— 8·174	+ 0·43	...	...	...	...	...	...	...	...	...	...
1970	95·52	3	— 41 34 37·80	37·91	— 8·152	+ 0·56	...	...	...	...	...	...	...	8960	...	...
1971*	89·57	11	— 34 27 50·26	50·37	— 8·140	+ 0·52	— 0·026	—0·01	...	405	2193	3042	685	8963	1151	...
1972*	93·00	6	+ 42 7 26·77	26·20	— 8·075	+ 0·27	+ 0·042	—0·13	...	...	...	...	...	...	...	...
1973	87·57	3	— 29 49 4·29	4·54	— 8·067	+ 0·51	...	...	...	...	...	...	...	...	...	...
1974†	89·64	25	+ 2 13 30·35	30·17	— 8·047	+ 0·41	— 0·065	—0·02	...	...	...	...	...	8971	1154	...
1975	92·00	12	+ 21 43 47·34	47·05	— 8·038	+ 0·35	— 0·015	+0·03	...	...	...	...	...	...	1155	...
1976†	89·02	4	— 33 17 45·09	45·21	— 8·006	+ 0·52	...	...	...	...	...	...	...	8976	...	...
1977	91·71	11	— 43 48 40·48	40·51	— 7·975	+ 0·57	— 0·035	+0·06	...	...	2196	3049	...	8980	...	...
1978	92·58	6	+ 49 12 4·39	3·33	— 7·910	+ 0·22	— 0·059	+0·15	...	...	...	...	...	...	...	...
1979	87·58	22	— 77 17 6·02	6·11	— 7·885	+ 1·15	— 0·339	—0·82	...	...	2190	3043	687	8984	1157	836*
1980	89·33	12	— 27 59 13·73	13·77	— 7·752	+ 0·50	— 0·028	—0·02	269	409	2203	3056	690	8999	1159	839
1981†	91·31	9	+ 30 43 48·32	47·96	— 7·739	+ 0·32	— 0·03	+0·04	...	...	...	...	...	...	...	...
1982	90·23	13	+ 42 39 51·76	51·19	— 7·629	+ 0·27	+ 0·026	—0·01	...	...	2208	...	...	...	1162	...
1983	89·00	32	— 10 20 37·31	37·50	— 7·585	+ 0·45	+ 0·035	+0·04	...	411	...	3062	...	9015	1163	*863*
1984	92·19	6	— 6 18 57·52	57·67	— 7·501	+ 0·44	...	...	...	...	...	...	...	...	...	...
1985	90·89	6	— 67 12 59·33	59·35	— 7·493	+ 0·82	...	...	...	...	2206	3060	...	9021	...	842
1986	93·47	6	— 1 0 39·01	39·20	— 7·440	+ 0·42	...	...	...	...	...	...	...	...	...	...
1987	94·58	6	+ 46 50 10·03	9·08	— 7·432	+ 0·24	...	...	...	...	...	...	...	...	...	...
1988	86·82	4	— 25 50 34·54	34·83	— 7·402	+ 0·50	...	...	...	...	...	3075	...	9045	...	...
1989	89·31	4	— 45 9 3·55	3·68	— 7·360	+ 0·59	...	...	...	...	...	...	...	9048	...	...
1990	95·53	3	— 24 15 13·83	13·98	— 7·273	+ 0·50	...	...	...	...	...	3081	...	9054	...	...
1991†	90·86	12	— 36 51 50·78	50·88	— 7·258	+ 0·55	...	...	...	...	...	...	...	9055	...	...
1992*	86·84	4	— 17 31 42·70	42·99	— 7·250	+ 0·47	+ 0·018	+0·06	271	413	2216	3087	692	9060	1164	*864*
1993	93·41	6	+ 38 33 41·10	40·57	— 7·241	+ 0·29	...	...	...	...	...	...	...	...	...	...
1994	94·16	8	— 0 47 11·23	11·45	— 7·226	+ 0·42	...	...	...	...	...	...	...	...	...	...
1995	93·02	6	— 66 54 9·28	9·25	— 7·219	+ 0·82	...	...	...	...	2212	3077	...	9059	...	846

1961. $7^m·9$, $9^m·9$ $1'' \pm$ $195° \pm$ 1896·6. Observed as one mass.
1964. Proper Motion determined for this Catalogue.
1968. $1^m·1$, $6^m·9$ $3''$ 272°. Observed as one mass.
1972. Limits of magnitude $4^m·7$—$5^m·5$ and $5^m·4$—$6^m·0$. Period irregular.
1974. Close binary; $4^m·2$, $6^m·3$. Observed as one mass.
1976. $7^m·5$, $9^m·5$ $1''·5 \pm$ $350° \pm$ 1896·6. Observed as one mass.
1981. $6^m·9$, 14^m $3''·6$ 33° 1889·28. Brighter star observed.
1991. $7^m·3$, $8^m·3$. $1'' \pm$ $85° \pm$ 1896·7. Observed as one mass.

No.	Bradley or Lacaille.	Piazzi. 1800.	B.A.C. 1850.	C.G.A. 1875.	Star's Name.	Mag.	Mean Date. 1800+	No. of Obs.	Mean R.A. 1890·0.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_α.	Corr. for μ_α to 1890·0.
									h m s	s	s		s
1996	6921	...	5570	22596	Lacaille 6921	7·1*	93·34	6	16 36 3·862	+ 5·3671	+ 0·054	...	...
1997	...	...	...	...	C.Z. XVI. 2491	8½*	93·61	3	16 36 41·869	+ 4·2049	+ 0·022	...	...
1998†	6911	...	5578	22607	Trianguli Australis ..α	1·9	88·17	6	16 37 1·222	+ 6·2998	+ 0·089	+ 0·0010	+ 0·002
1999	6957	...	5595	22617	Lacaille 6957	6·9*	95·53	2	16 37 3·898	+ 3·6985	+ 0·013	...	...
2000	2127	165	5604	...	40 Herculis(as one mass)ζ	3·1	90·00	9	16 37 8·287	+ 2·2972	+ 0·003	— 0·0356	0·000
2001	2133	173	5617	...	44 Herculis.....η	3·7	90·00	1	16 39 7·520	+ 2·0518	+ 0·004	+ 0·0028	0·000
2002	...	...	...	22667	Brisbane 5834	7½*	87·35	4	16 39 41·761	+ 4·1876	+ 0·021	...	...
2003	...	177	5619	...	Piazzi XVI. 177	5·8	91·30	5	16 39 48·188	+ 2·2177	+ 0·003	...	...
2004	6977	...	5612	22670	Lacaille 6977	8*	87·22	3	16 39 50·266	+ 3·8347	+ 0·015	...	...
2005	...	...	...	...	B.D. — 18° No. 4324 ...	8·8†	85·65	2	16 40 14·649	+ 3·4951	+ 0·010	...	...
2006†	6956	...	5609	22672	Aræ.....η	3·6	91·25	12	16 40 17·219	+ 5·1513	+ 0·045	+ 0·0003	0·000
2007	2136	181	5624	...	46 Herculis .....*pr.*	7·4†	90·91	8	16 40 42·494	+ 2·3880	+ 0·003	— 0·0020	+ 0·002
2008	6984	...	5622	22697	Lacaille 6984	6·7*	90·55	13	16 41 22·565	+ 3·8292	+ 0·015	...	...
2009	6991	174	5623	22704	Lacaille 6991	7·1*	88·09	4	16 41 32·580	+ 3·6418	+ 0·012	...	...
2010	...	...	...	...	Lalande 30528.....	8·0†	90·52	2	16 42 6·390	+ 3·5085	+ 0·010	— 0·006†	+ 0·003
2011	6987	176	...	22714	Lacaille 6987	7·0*	87·86	4	16 42 7·511	+ 3·9169	+ 0·016	...	...
2012†	2132*	184	5632	22731	26 Scorpii .....ε	2·3	90·56	9	16 43 2·220	+ 3·9269	+ 0·016	— 0·0512	+ 0·029
2013	3245*	185	5633	22733	18 Ophiuchi	6·7*	87·83	4	16 43 2·645	+ 3·6463	+ 0·012	— 0·0012	— 0·003
2014	...	...	5644	...	Lalande 30650.....	6·5†	...	...	16 43 48	+ 1·9172	+ 0·004	...	...
2015	7000	186	5635	22748	Lacaille 7000	5·5	95·52	2	16 43 53·477	+ 4·1727	+ 0·020	...	...
2016	...	...	...	...	B.D. — 16° No. 4359 ...	9·0†	85·65	1	16 44 22·719	+ 3·4590	+ 0·009	...	...
2017†	7006	189	5638	22761	Scorpii .....μ^1	3·3	92·26	10	16 44 25·117	+ 4·0558	+ 0·018	— 0·0020	+ 0·005
2018	...	...	...	22756	Brisbane 5854	9*	94·55	6	16 44 31·597	+ 4·9614	+ 0·037	...	...
2019	7015	...	5641	22766	Lacaille 7015	7·4*	87·57	3	16 44 38·742	+ 3·6530	+ 0·011	...	...
2020†	7009	193	5640	22778	Scorpii .....μ^2	3·7	90·91	6	16 44 53·030	+ 4·0553	+ 0·018	— 0·0030	+ 0·003
2021	7022	...	5650	22794	Lacaille 7022	7·0*	89·19	3	16 45 31·100	+ 3·6744	+ 0·012	...	...
2022	6948	...	...	22770	Lacaille 6948	6·8*	87·77	20	16 45 47·259	+ 8·1701	+ 0·168	...	...
2023	7016	198	5651	22812	Scorpii .....ζ^1	5·0	89·45	9	16 46 14·122	+ 4·2216	+ 0·020	...	...
2024†	7025	206	5661	22832	Scorpii .....ζ^2	3·5	90·80	9	16 46 50·546	+ 4·2223	+ 0·020	— 0·0152	+ 0·012
2025	2144	223	5674	...	49 Herculis	6·4	88·96	23	16 47 4·347	+ 2·7285	+ 0·004	+ 0·0003	0·000
2026	...	...	...	...	Lalande 30714.....	7·0†	90·56	6	16 47 4·450	+ 2·3886	+ 0·003	...	...
2027	...	...	...	...	Lalande 30720.....	7·1†	91·64	6	16 47 15·670	+ 2·4643	+ 0·003	...	...
2028	7041	...	5672	22863	Lacaille 7041	7¼*	89·20	3	16 47 44·383	+ 3·8301	+ 0·014	...	...
2029	...	...	...	22891	Lalande 30718.....	6·7*	92·12	6	16 48 32·887	+ 3·3340	+ 0·008	...	...
2030	7049	222	5682	22894	Lacaille 7049	7·0*	87·20	5	16 48 46·705	+ 3·9095	+ 0·014	...	...

No.	Mean Date. 1800+	No. of Obs.	Mean Dec. 1890·0.	Sec. of Final Dec.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_δ.	Corr. for μ_δ to 1890·0.	Fallows and Henderson.	Johnson.	Cape Catalogues. 1840.	1850.	1860.	1880.	1885.	Melbourne, 1870 and 1880.
			° ′ ″	″	″	″	″	″								
1996	93·34	6	— 61 27 19·06	19·11	— 7·181	+ 0·73	...	...	...	...	...	3080	...	9063	...	...
1997	93·61	3	— 42 11 1·67	1·93	— 7·129	+ 0·57	...	...	...	...	...	...	...	...	...	...
1998	88·43	7	— 68 49 27·46	27·51	— 7·103	+ 0·86	— 0·047	—0·07	270*	412	2213	3086	693	9070	1166	847*
1999	95·53	3	— 26 35 50·98	51·12	— 7·099	+ 0·51	...	...	...	...	...	3096	...	9073	...	...
2000†	90·00	9	+ 31 48 7·41	7·03	— 7·093	+ 0·32	+ 0·410	0·00	...	...	...	...	696	9074	1167	848*
2001	90·50	12	+ 39 7 54·68	54·23	— 6·930	+ 0·28	— 0·077	+0·04	...	...	2225	...	...	...	1169	...
2002	87·25	6	— 41 36 29·59	29·81	— 6·883	+ 0·58	...	...	...	...	...	...	...	9100	...	...
2003	91·83	6	+ 34 14 31·03	30·68	— 6·875	+ 0·31	...	...	...	...	...	...	...	...	...	...
2004	87·05	6	— 31 15 5·98	6·25	— 6·872	+ 0·53	...	...	...	...	...	3106	...	9102	...	...
2005	85·65	2	— 18 35 13·10	13·22	— 6·839	+ 0·48	...	...	...	...	...	...	...	...	...	...
2006	91·25	12	— 58 50 37·77	37·75	— 6·835	+ 0·71	— 0·041	+0·05	...	414	2222	3104	697	9105	1171	850
2007†	90·91	8	+ 28 33 32·85	32·55	— 6·800	+ 0·33	+ 0·01	—0·01	...	...	...	...	...	...	...	...
2008	90·27	14	— 31 0 21·70	21·85	— 6·745	+ 0·53	...	...	...	...	...	3109	...	9112	...	...
2009	87·98	5	— 24 19 44·58	44·75	— 6·732	+ 0·50	...	...	...	...	...	3110	...	9113	...	...
2010*	90·50	3	— 19 4 52·45	52·55	— 6·685	+ 0·48	— 0·40†	+0·20	...	...	...	...	...	...	...	...
2011	87·86	4	— 33 49 13·07	13·24	— 6·684	+ 0·54	...	...	...	...	...	...	...	9119	...	...
2012	90·50	8	— 34 5 34·26	34·24	— 6·609	+ 0·54	— 0·263	+0·13	272*	415	2226	3114	701	9123	1173	*870*
2013	87·83	4	— 24 26 47·43	47·62	— 6·608	+ 0·50	— 0·048	—0·10	...	...	2227	3115	...	9124	...	...
2014	92·40	6	+ 42 26 6·64	5·97	— 6·545	+ 0·27	...	...	...	...	...	...	...	...	...	...
2015	95·52	3	— 41 2 25·60	25·71	— 6·538	+ 0·58	...	...	...	...	2229	3116	...	9129	...	851
2016	85·65	1	— 16 59 32·47	32·58	— 6·497	+ 0·48	...	...	...	...	...	...	...	...	...	...
2017	92·26	10	— 37 51 28·10	28·16	— 6·494	+ 0·56	— 0·030	+0·07	*73*	416	2232	3119	703	9132	1175	...
2018	94·55	6	— 56 11 16·78	16·90	— 6·485	+ 0·69	...	...	...	...	...	...	...	9131	...	...
2019	87·32	4	— 24 38 40·77	41·04	— 6·475	+ 0·51	...	...	...	...	...	3122	...	9138	...	...
2020	90·91	6	— 37 49 45·13	45·13	— 6·456	+ 0·56	— 0·033	+0·03	*74*	418	2233	3121	...	9141	1176	...
2021	88·54	4	— 25 24 47·38	47·58	— 6·403	+ 0·51	...	...	...	...	...	3127	...	9150	...	...
2022	87·47	31	— 76 2 17·07	17·19	— 6·381	+ 1·13	...	...	...	...	...	...	...	9145	1177	...
2023	89·45	9	— 42 10 40·74	40·84	— 6·344	+ 0·59	...	...	...	...	2236	3129	704	9160	1178	...
2024	90·80	9	— 42 10 19·26	19·30	— 6·293	+ 0·59	— 0·236	+0·19	...	...	2239	3136	705	9170	1179	...
2025	89·26	27	+ 15 9 33·43	33·20	— 6·274	+ 0·38	— 0·001	0·00	...	...	...	...	...	...	1180	...
2026	90·56	6	+ 28 18 24·46	24·21	— 6·274	+ 0·34	...	...	...	...	...	...	...	...	...	...
2027	91·64	6	+ 25 35 8·30	8·11	— 6·258	+ 0·35	...	...	...	...	...	...	...	...	...	...
2028	88·55	4	— 30 47 51·34	51·43	— 6·219	+ 0·53	...	...	...	...	...	3146	...	9186	...	...
2029	92·12	6	— 11 36 42·89	43·00	— 6·151	+ 0·46	...	...	...	...	...	...	...	...	...	...
2030	87·20	5	— 33 19 43·68	43·94	— 6·132	+ 0·54	...	...	...	...	...	3153	...	9200	...	...

2000. Binary ; $3^m{\cdot}1$, $7^m{\cdot}0$. Observed as one mass.
2010. Proper Motion from *Cincinnati Publications*, No. 12.

2007. $7^m{\cdot}4$, $9^m{\cdot}3$ $5''{\cdot}0$ 164°. Brighter star observed.

No.	Bradley or Lacaille.	Piazzi. 1800.	B.A.C. 1850.	C.G.A. 1875.	Star's Name.	Mag.	Mean Date. 1800+	No. of Obs.	Mean R.A. 1890·0.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_a.	Corr. for μ_a to 1890·0.
									h m s	s	s	s	s
2031	2151	238	5693	...	53 Herculis	5·4	91·55	7	16 48 47·790	+ 2·2807	+ 0·003	— 0·0090	+ 0·014
2032	2150	233	5692	...	25 Ophiuchi.....ι	4·4	92·17	10	16 48 48·151	+ 2·8401	+ 0·004	— 0·0052	+ 0·011
2033†	7034	...	5683	22916	Aræ.....ζ	3·0	90·78	12	16 49 31·052	+ 4·9484	+ 0·034	— 0·0065	+ 0·005
2034	...	232	5695	22925	Piazzi XVI. 232	6·6*	85·65	2	16 49 40·879	+ 3·4531	+ 0·009	...	...
2035	6905	...	...	22858	Lacaille 6905	7·5	93·16	10	16 49 41·642	+12·416	+ 0·470	...	...
2036†	7050	...	5697	22941	Aræ .....ε^1	4·2	90·66	12	16 50 48·966	+ 4·7658	+ 0·030	— 0·0037	+ 0·002
2037	...	253	5706	...	Piazzi XVI. 253	7·0†	...	...	16 51 9	+ 1·7165	+ 0·005	...	...
2038	7065	237	...	22962	Lacaille 7065	6·6*	95·52	3	16 51 25·588	+ 4·0509	+ 0·016	...	...
2039	7070	...	5704	22967	Lacaille 7070	8*	86·82	4	16 51 29·814	+ 3·6925	+ 0·011	...	...
2040	...	...	...	...	Lalande 30835.....	6·5†	90·54	7	16 51 37·440	+ 2·7465	+ 0·004	...	...
2041	...	...	...	22983	Brisbane 5915.....	6·6	91·43	6	16 52 15·412	+ 4·3434	+ 0·021	...	...
2042	2156	252	5708	...	27 Ophinchi .....κ	3·4	88·84	44	16 52 27·695	+ 2·8574	+ 0·004	— 0·0212	— 0·025
2043	2157	257	5714	...	57 Herculis	6·3†	91·24	6	16 53 0·070	+ 2·4614	+ 0·003	+ 0·0008	— 0·001
2044	...	...	...	...	Lalande 30944.....	7·3†	...	...	16 53 58	+ 1·8410	+ 0·004	...	...
2045	7087	...	...	23029	Lacaille 7087	7*	87·90	6	16 54 32·302	+ 3·9120	+ 0·013	...	...
2046†	7089	255	5718	23035	Lacaille 7089	5·2	90·96	12	16 54 45·787	+ 3·8736	+ 0·013	— 0·0037	+ 0·004
2047	...	...	...	...	✻	9·0‡	91·46	2	16 54 52·490	+92·993	+34·886	...	...
2048	2161	272	5731	...	58 Herculis.....ε	4·0	90·67	12	16 56 4·820	+ 2·2976	+ 0·003	— 0·0047	+ 0·003
2049	7111	...	5737	23097	Lacaille 7111	6·7*	95·52	3	16 57 31·809	+ 3·7692	+ 0·011	+ 0·008†	— 0·044
2050	2165	280	5747	...	59 Herculis.....d	5·3	90·78	9	16 57 32·738	+ 2·2129	+ 0·003	— 0·0014	+ 0·001
2051	7061	...	...	23085	Lacaille 7061	8¼*	92·46	6	16 57 43·320	+ 7·2084	+ 0·099	...	...
2052	...	...	...	...	Lalande 31033.....	7·0†	90·91	6	16 57 43·743	+ 2·6153	+ 0·004	...	...
2053	7121	...	5743	23103	Lacaille 7121	7½*	86·77	5	16 57 48·749	+ 3·6253	+ 0·010	...	...
2054	...	...	...	...	Lalande 31032.....	8·0†	91·58	2	16 57 53·580	+ 2·7317	+ 0·004	...	...
2055	7018	...	...	23079	Lacaille 7018	8¼*	92·62	11	16 58 6·646	+ 9·2710	+ 0·196	...	...
2056	...	...	...	...	Lalande 31039.....	6·5†	91·91	6	16 58 10·563	+ 2·7350	+ 0·004	...	...
2057	7126	...	...	23139	Lacaille 7126	7½*	86·93	6	16 59 19·409	+ 4·0074	+ 0·014	...	...
2058	2167	293	5765	...	60 Herculis	4·9	89·57	13	17 0 16·607	+ 2·7768	+ 0·004	+ 0·0030	+ 0·001
2059	7131	...	...	23156	Lacaille 7131	7¼*	91·04	6	17 0 21·260	+ 4·2141	+ 0·017	...	...
2060	...	...	...	23027	C.G.A. 23027	7·6	92·15	25	17 0 58·874	+30·311	+ 2·996	...	...
2061	...	307	5775	...	Piazzi XVI. 307	6·2	...	...	17 1 44	+ 1·8247	+ 0·004	...	...
2062	...	310	5776	...	Piazzi XVI. 310	6·3	...	...	17 1 54	+ 1·5863	+ 0·005	...	...
2063	7147	294	5772	23206	Lacaille 7147	4·9	95·52	3	17 2 43·958	+ 4·3417	+ 0·018	...	...
2964	7062	...	...	23200	Lacaille 7062	8*	90·57	13	17 3 36·215	+ 9·7054	+ 0·200	...	...
2065*	2171	306	5781	23251	35 Ophiuchi(as one mass)η	2·6	88·40	35	17 4 4·129	+ 3·4344	+ 0·007	+ 0·0003	0·000

No.	Mean Date. 1800+	No. of Obs.	Mean Dec. 1890·0.	Sec. of Final Dec.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_δ.	Corr. for μ_δ to 1890·0.	Fallows and Henderson.	Johnson.	Cape Catalogues. 1840.	1850.	1860.	1880.	1885.	Melbourne, 1870 and 1880.
			° ′ ″	″	″	″	″	″								
2031	91·55	7	+ 31 53 2·37	2·07	— 6·130	+ 0·32	— 0·018	+0·03	...	...	...	...	...	...	...	...
2032	92·02	11	+ 10 20 48·44	48·26	— 6·130	+ 0·40	— 0·034	+0·07	...	...	...	...	...	...	...	...
2033	90·78	12	— 55 48 54·99	55·04	— 6·070	+ 0·69	— 0·044	+0·03	...	419	2244	3154	706	9209	1183	855*
2034	85·65	2	— 16 37 48·92	49·04	— 6·056	+ 0·48	...	...	...	...	...	3163	...	...	...	...
2035	92·95	11	— 82 13 57·47	57·56	— 6·055	+ 1·73	...	...	...	...	...	...	...	9193	...	...
2036	90·66	12	— 52 59 24·83	24·81	— 5·962	+ 0·66	+ 0·005	0·00	...	421	2246	3165	707	9220	1186	856
2037	91·61	8	+ 46 43 2·80	2·05	— 5·934	+ 0·24	...	...	...	...	...	...	...	...	...	...
2038	95·52	3	— 37 26 53·42	53·54	— 5·911	+ 0·57	...	...	...	...	...	...	...	9226	...	...
2039	86·82	4	— 25 53 14·35	14·64	— 5·905	+ 0·52	...	...	...	...	...	3170	...	9227	...	...
2040	90·54	7	+ 14 18 46·37	46·21	— 5·895	+ 0·39	...	...	...	...	...	...	...	...	...	...
2041	91·43	6	— 44 49 10·20	10·17	— 5·842	+ 0·61	...	...	...	...	...	...	...	9233	...	...
2042	88·98	49	+ 9 32 47·60	47·33	— 5·824	+ 0·40	+ 0·015	+0·02	...	...	...	...	708	9236	1188	857*
2043	91·24	6	+ 25 31 22·65	22·38	— 5·779	+ 0·35	+ 0·004	0·00	...	...	...	...	...	...	...	...
2044	91·61	7	+ 43 51 12·51	11·95	— 5·698	+ 0·26	...	...	...	...	...	...	...	...	...	...
2045	87·90	6	— 33 12 11·72	11·89	— 5·651	+ 0·55	...	...	...	...	...	...	...	9249	...	...
2046	90·96	12	— 31 58 45·26	45·31	— 5·631	+ 0·54	— 0·073	+0·07	...	...	2253	3178	...	9253	...	...
2047*	91·46	2	— 89 10 56·51	56·56	— 5·621	+13·02	...	...	...	...	...	...	...	...	...	...
2048	90·67	12	+ 31 5 19·32	19·04	— 5·520	+ 0·32	+ 0·032	—0·02	...	...	...	...	...	9269	1190	...
2049*	95·52	3	— 28 25 8·12	8·26	— 5·398	+ 0·53	— 0·33†	+1·82	...	...	...	3192	...	9283	...	...
2050	90·78	9	+ 33 43 39·91	39·59	— 5·397	+ 0·31	+ 0·008	—0·01	...	...	...	...	...	...	1191	...
2051	92·46	6	— 72 42 13·88	13·84	— 5·383	+ 1·02	...	...	...	...	...	...	...	9280	...	...
2052	90·91	6	+ 19 32 41·88	41·69	— 5·381	+ 0·37	...	...	...	...	...	...	...	...	...	...
2053	86·74	6	— 23 14 3·53	3·83	— 5·374	+ 0·51	...	...	...	...	...	3195	...	9290	...	...
2054	91·58	2	+ 14 49 14·53	14·34	— 5·368	+ 0·39	...	...	...	...	...	...	...	...	...	...
2055	92·36	13	— 78 15 28·08	28·12	— 5·349	+ 1·31	...	...	...	...	...	...	...	9281	...	...
2056	91·91	6	+ 14 40 23·95	23·75	— 5·344	+ 0·39	...	...	...	...	...	...	...	...	...	...
2057	86·93	6	— 35 55 37·43	37·67	— 5·247	+ 0·57	...	...	...	...	...	...	...	9300	...	...
2058	89·64	14	+ 12 53 32·37	32·18	— 5·166	+ 0·39	— 0·002	0·00	...	...	...	...	...	...	1196	...
2059	91·04	6	— 41 27 56·92	56·97	— 5·160	+ 0·60	...	...	...	...	...	...	...	9310	...	...
2060	89·81	50	— 87 16 57·76	57·77	— 5·107	+ 4·28	...	...	...	...	...	...	...	9273	1194	878
2061	91·40	6	+ 43 57 43·89	43·27	— 5·045	+ 0·26	...	...	...	...	...	...	...	...	...	...
2062	91·63	8	+ 48 57 22·94	22·01	— 5·042	+ 0·23	...	...	...	...	...	...	...	...	...	...
2063	95·52	3	— 44 24 52·87	52·97	— 4·958	+ 0·62	...	...	...	...	2269	3215	...	9332	...	880
2064	89·31	13	— 78 56 22·43	22·51	— 4·885	+ 1·38	...	...	...	...	...	...	...	9331	...	...
2065†	89·17	47	— 15 35 17·05	17·22	— 4·846	+ 0·49	+ 0·097	+0·08	276*	425	2272	3220	721	9344	1198	882

2047. Magnitude from Cape observations.

2049. Proper Motion from *Cincinnati Publications*, No. 12.

2065. $3^m{\cdot}1$, $3^m{\cdot}6$ $0''{\cdot}4$ 270°. 1892·40. Angle slowly diminishing. Observed as one mass.

No.	Bradley or Lacaille.	Piazzi. 1800.	B.A.C. 1850.	C.G.A. 1875.	Star's Name.	Mag.	Mean Date. 1800+	No. of Obs.	Mean R.A. 1890·0.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Anuual Proper Motion. μ_a.	Corr. for μ_a to 1890·0.
									h m s	s		s	s
2066	...	3	5788	...	Piazzi XVII. 3	5·5	87·82	4	17 4 8·000	+ 2·1272	+ 0·003	...	...
2067	...	...	5790	...	Lalande 31264.....	6·3	...	...	17 4 11	+ 1·9581	+ 0·004	—0·0084	...
2068	7002	...	...	23192	Lacaille 7002	6·8	92·27	10	17 4 14·924	+13·151	+ 0·423	...	...
2069†	7155	302	5778	23250	Scorpii .....η	3·4	91·14	12	17 4 16·408	+ 4·2864	+ 0·017	+0·0006	— 0·001
2070	...	...	...	...	W.B. XVII. 39	8·2†	85·65	3	17 5 34·159	+ 3·2708	+ 0·006	...	...
2071	7166	...	5793	23285	Lacaille 7166	6·3*	87·56	4	17 5 49·509	+ 3·8943	+ 0·011	...	...
2072	...	5	...	...	Piazzi XVII. 5	7·1†	90·60	6	17 5 56·840	+ 2·9627	+ 0·004	...	...
2073	2174*	6	5800	23324	Bradley 2174	7·0*	87·81	4	17 7 23·178	+ 3·7316	+ 0·009	—0·0037	— 0·008
2074	...	...	...	...	C.P.D. — 26° No. 5856..	9·1‡	87·59	3	17 7 37·520	+ 3·7127	+ 0·009	...	...
2075	7179	9	5804	23337	Lacaille 7179	5·6	95·52	3	17 8 5·949	+ 3·9322	+ 0·011	...	...
2076	...	...	...	23346	Lalande 31302.....	8*	90·59	6	17 8 23·480	+ 3·7195	+ 0·009	0·000*	0·000
2077	2176*	17	5808	23354	36 Ophiuchi ..... *pr.*	5¾*	90·20	5	17 8 34·886	+ 3·7206	+ 0·009	—0·0386	+ 0·008
2078	2176*	17	5808	23355	36 Ophiuchi .....*seq.*	5¾*	90·00	1	17 8 35·020	+ 3·7206	+ 0·009	—0·0386	0·000
2079	...	...	...	...	Lalande 31387.....	6·8†	...	...	17 9 2	+ 1·8193	+ 0·004	...	...
2080	...	...	...	...	C.Z. XVII. 550	9½*	91·57	3	17 9 21·220	+ 3·7125	+ 0·009	...	...
2081	7170	...	5806	23361	Lacaille 7170	6·5*	93·98	6	17 9 28·396	+ 5·2936	+ 0·031	...	...
2082	2183	29	5821	...	64 Herculis .....*pr. a*	Var.	90·00	11	17 9 37·880	+ 2·7347	+ 0·003	—0·0019	0·000
2083†	7156	...	5803	23362	Apodis.....*t*	5·6	94·55	10	17 9 49·825	+ 6·6588	+ 0·063	—0·006	+ 0·027
2084†	7202	23	5817	23377	Lacaille 7202	5·5	94·60	10	17 9 54·219	+ 3·9051	+ 0·011	—0·0091	+ 0·042
2085	...	...	...	...	W.B. XVII. 123	8·0†	85·65	2	17 10 6·459	+ 3·2540	+ 0·006	...	...
2086	...	...	...	...	C.P.D. — 26° No. 5864..	9·0‡	91·64	4	17 10 15·300	+ 3·7189	+ 0·009	...	...
2087	7212	...	5820	23390	Lacaille 7212 (as one mass)	6·9	86·99	5	17 10 19·173	+ 3·8275	+ 0·010	0·000*	0·000
2088	...	...	...	...	W.B. XVII. 129	9·0†	85·65	2	17 10 19·259	+ 3·2360	+ 0·005	...	...
2089	2185	35	5828	...	65 Herculis .....δ	3·3	90·25	8	17 10 30·790	+ 2·4644	+ 0·003	—0·0028	+ 0·001
2090	7088	...	5794	23360	Lacaille 7088	6·0	87·66	17	17 10 53·918	+11·097	+ 0·244	—0·008*	— 0·019
2091	2187	39	5834	...	67 Herculis .....π	3·4	90·00	1	17 11 12·960	+ 2·0902	+ 0·003	—0·0035	0·000
2092	...	...	...	...	C.Z. XVII. 728	10*	87·59	3	17 11 30·200	+ 3·7155	+ 0·009	...	...
2093	...	...	...	...	B.D. — 7° No. 4420 ...	9·3†	85·67	2	17 12 0·959	+ 3·2456	+ 0·005	...	...
2094	...	...	...	...	W.B. XVII. 163	8·7†	85·66	2	17 12 7·879	+ 3·2608	+ 0·005	...	...
2095	2191	50	5841	...	Ophiuchi .....*e*	5·5	90·53	6	17 13 26·680	+ 2·8183	+ 0·004	—0·0028	+ 0·001
2096	7238	...	5838	23458	Lacaille 7238	7¼*	87·16	5	17 13 28·529	+ 3·8058	+ 0·009	...	...
2097	2195	59	5847	...	69 Herculis .....*e*	4·9	88·05	2	17 13 52·500	+ 2·0708	+ 0·003	—0·0046	— 0·009
2098	...	69	5853	...	Piazzi XVII. 69	5·9	...	...	17 14 0	+ 1·5217	+ 0·005	...	...
2099	...	...	...	...	C.Z. XVII. 927	8¼*	87·61	3	17 14 34·800	+ 3·7210	+ 0·008	...	...
2100	...	...	...	...	W.B. XVII. 218	8·5†	85·65	2	17 14 47·090	+ 3·2333	+ 0·004	...	...

2077, 2078. A Ophiuchi in B.A.C. and C.G.A.

2095. B.A.C. gives no letter.

No.	Mean Date. 1800+	No. of Obs.	Mean Dec. 1890·0.	Sec. of Final Dec.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_δ.	Corr. for μ_δ to 1890·0.	Fallows and Henderson.	Johnson.	Cape Catalogues. 1840.	1850.	1860.	1880.	1885.	Melbourne. 1870 and 1880.
			° ′ ″	″	″	″	″	″								
2066	87·82	4	+ 36 4 43·32	42·78	— 4·840	+ 0·30	...	...	...	...	...	...	...	...	...	...
2067	92·32	8	+ 40 39 36·82	36·32	— 4·836	+ 0·28	— 0·014	+0·03	...	...	...	...	...	...	...	...
2068	91·69	10	— 82 39 50·23	50·31	— 4·830	+ 1·87	...	...	...	...	...	...	...	9333	...	861*
2069	91·14	12	— 43 5 36·01	35·99	— 4·829	+ 0·61	— 0·289	+0·33	61	424	2270	3218	720	9345	1199	863
2070	85·65	3	— 8 40 38·40	38·54	— 4·718	+ 0·47	...	...	...	...	...	...	...	...	...	...
2071	87·56	4	— 32 18 15·26	15·47	— 4·696	+ 0·55	...	...	...	...	...	3227	...	9360	...	...
2072	90·60	6	+ 4 49 34·07	34·00	— 4·686	+ 0·42	...	...	...	...	...	...	...	...	...	...
2073	87·81	4	— 26 51 6·71	6·93	— 4·564	+ 0·53	— 0·08	—0·18	...	...	2275	3231	...	9368	...	...
2074	87·59*	3	— 26 10 59·58	59·84	— 4·543	+ 0·53	...	...	...	...	...	...	...	...	...	...
2075	95·52	3	— 33 25 12·40	12·54	— 4·502	+ 0·56	...	...	...	...	2278	3233	...	9375	...	...
2076	90·59	12	— 26 24 13·06	13·05	— 4·477	+ 0·53	0·00*	0·00	...	...	...	...	...	9379	...	...
2077†	90·20	5	— 26 26 26·58	26·62	— 4·461	+ 0·53	— 1·138	+0·23	...	426	2281	3237	727	9382	...	...
2078†	90·00	1	— 26 26 21·52	21·58	— 4·461	+ 0·53	— 1·138	0·00	...	426	2282	3237	727	9383	...	...
2079	94·57	5	+ 43 51 46·40	45·65	— 4·423	+ 0·26	...	...	...	...	...	...	...	...	...	...
2080	91·57	3	— 26 8 11·12	11·19	— 4·396	+ 0·53	...	...	...	...	...	...	...	...	...	...
2081	93·98	6	— 59 34 22·95	23·05	— 4·386	+ 0·75	...	...	...	...	2279	3235	728	9387	...	...
2082†	90·21	14	+ 14 30 58·19	57·94	— 4·372	+ 0·39	+ 0·030	—0·01	146	...	2286	3248	731	9396	1204	868*
2083	94·55	10	— 70 0 21·14	21·23	— 4·355	+ 0·95	— 0·04	+0·18	...	...	2276	3232	726	9388	...	867
2084	94·23	11	— 32 32 16·00	16·18	— 4·349	+ 0·56	— 0·050	+0·21	...	...	2283	3244	730	9398	...	...
2085	85·65	2	— 7 55 3·87	4·01	— 4·331	+ 0·46	...	...	...	...	...	...	...	...	...	...
2086*	91·64	4	— 26 20 22·28	22·28	— 4·318	+ 0·53	...	...	...	...	...	...	...	...	...	...
2087†	86·99	5	— 30 2 29·49	29·75	— 4·313	+ 0·55	0·00*	0·00	...	...	...	3247	732	9406	...	..
2088	85·65	2	— 7 8 24·32	24·47	— 4·313	+ 0·46	...	...	...	...	...	...	...	..	...	...
2089	90·25	8	+ 24 58 9·29	9·10	— 4·296	+ 0·35	— 0·161	+0·04	...	...	2292	...	...	...	1207	...
2090	87·26	42	— 80 45 16·07	16·13	— 4·263	+ 1·58	— 0·06*	—0·16	...	...	2274	3228	724	9393	1206	866*
2091	90·70	10	+ 36 56 0·74	0·32	— 4·236	+ 0·30	+ 0·005	0·00	...	...	...	...	...	...	1209	...
2092	87·59	3	— 26 11 44·21	44·47	— 4·212	+ 0·53	...	...	...	...	...	...	...	...	...	...
2093	85·67	2	— 7 32 32·38	32·51	— 4·168	+ 0·46	...	...	...	...	...	...	...	...	...	...
2094	85·66	2	— 8 11 44·75	44·88	— 4·158	+ 0·46	...	...	...	...	...	...	...	...	...	...
2095*	90·53	5	+ 10 59 2·79	2·66	— 4·045	+ 0·40	— 0·080	+0·04	...	...	...	...	...	...	...	...
2096	87·07	6	— 29 14 59·06	59·33	— 4·043	+ 0·54	...	...	...	...	...	3262	...	9435	...	...
2097	90·09	8	+ 37 24 25·74	25·33	— 4·009	+ 0·30	+ 0·084	—0·01	...	...	...	...	...	...	...	...
2098	93·04	6	+ 49 48 35·09	33·93	— 3·998	+ 0·22	...	...	...	...	...	...	...	...	...	...
2099	87·62	4	— 26 19 23·32	23·58	— 3·948	+ 0·53	...	...	...	...	...	...	...	...	...	...
2100	85·65	2	— 6 59 34·58	34·72	— 3·931	+ 0·46	...	...	...	...	...	...	...	...	...	...

2074, 2086. Magnitude from *Cordoba Durchmusterung*. 2077, 2078. Binary.
2082. Var., $6^m·1$ 4″·6 118° 1866·54; 5″·0 116° 1895·51. Brighter star observed. Limits of magnitude 3·1—3·9. Period irregular.
2087. $7^m·4$, $8^m·0$ 0″·8 356° 1889·4. Observed as one mass.

No.	Bradley or Lacaille.	Piazzi. 1800.	B.A.C. 1850.	C.G.A. 1875.	Star's Name.	Mag.	Mean Date. 1800+	No. of Obs.	Mean R.A. 1890·0.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_α.	Corr. for μ_α to 1890·0.
									h m s	s	s	s	s
2101	2188*	51	5846	23490	Bradley 2188	6·6	95·52	3	17 14 56·679	+ 3·6782	+ 0·008	—0·0071	+ 0·039
2102†	2189*	53	5851	23500	42 Ophiuchi .....θ	3·4	89·60	10	17 15 15·171	+ 3·6810	+ 0·008	—0·0025	— 0·001
2103	7248	...	5849	23499	Lacaille 7248	8¼*	91·06	6	17 15 16·195	+ 3·8663	+ 0·009	...	...
2104†	7233	...	5850	23515	Aræ.....γ	3·4	91·30	6	17 16 8·103	+ 5·0385	+ 0·023	—0·0031	+ 0·004
2105†	7237	...	5852	23516	Aræ.....β	2·7	91·31	8	17 16 9·304	+ 4·9767	+ 0·022	—0·0027	+ 0·004
2106	7247	54	5855	23522	Lacaille 7247	5·0	87·60	5	17 16 14·687	+ 4·3426	+ 0·014	...	...
2107	...	...	...	23546	C.G.A. 23546.....	8¼*	87·01	5	17 16 53·223	+ 3·8220	+ 0·009	...	...
2108	7274	70	5862	23558	Lacaille 7274	7¼*	95·53	3	17 17 21·439	+ 3·6503	+ 0·007	...	...
2109	...	...	5874	...	Lalande 31694.....	5·8	...	...	17 18 7	+ 1·9661	+ 0·003	...	...
2110	7278	...	5869	23589	Lacaille 7278	7½*	87·41	6	17 18 29·155	+ 3·8186	+ 0·008	...	...
2111	...	...	...	...	Gilliss P.Z. 12435	8·8‡	91·46	2	17 19 14·685	+22·157	+ 1·024	...	...
2112†	2198*	83	5876	23614	44 Ophiuchi	4·5	89·50	12	17 19 39·085	+ 3·6605	+ 0·007	—0·0025	— 0·001
2113	2207	105	5886	...	75 Herculis ..... *seq.* ρ	4·4	88·53	1	17 19 53·150	+ 2·0716	+ 0·003	—0·0061	— 0·009
2114†	2200*	86	5881	23629	45 Ophiuchi .....d	4·4	90·00	11	17 20 19·767	+ 3·8257	+ 0·008	—0·0002	0·000
2115	...	90	5884	23633	Piazzi XVII. 90	6·7*	87·60	6	17 20 36·693	+ 3·8216	+ 0·008	...	...
2116	7288	...	...	23638	Lacaille 7288	6¾*	95·52	3	17 21 2·748	+ 4·3396	+ 0·013	...	...
2117	2206	103	5893	...	49 Ophiuchi .....σ	4·4	91·92	12	17 21 3·392	+ 2·9749	+ 0·004	—0·0017	+ 0·003
2118†	7271	...	5877	23636	Aræ .....δ	3·8	92·20	7	17 21 10·118	+ 5·4101	+ 0·026	—0·0104	+ 0·023
2119	7299	...	5891	23649	Lacaille 7299	6·6*	91·60	5	17 21 29·502	+ 4·0544	+ 0·010	...	...
2120	7307	100	5896	23659	Lacaille 7307 (as one mass)	7¼*	86·93	6	17 21 51·470	+ 3·6990	+ 0·007	...	...
2121	...	...	...	...	Cor. D. — 26° No. 12149	9·0‡	87·60	3	17 23 8·950	+ 3·7307	+ 0·007	...	...
2122†	2205*	106	5901	23698	34 Scorpii .....υ	2·8	90·59	6	17 23 17·020	+ 4·0745	+ 0·010	—0·0028	+ 0·002
2123†	7301	...	5899	23694	Aræ.....α	2·9	91·69	11	17 23 20·265	+ 4·6336	+ 0·015	—0·0058	+ 0·010
2124	2211	130	5911	...	77 Herculis.....x	5·8	...	...	17 23 49	+ 1·5879	+ 0·004	—0·0019	...
2125*	2209*	115	5907	23739	51 Ophiuchi	4·9	87·35	4	17 24 42·258	+ 3·6573	+ 0·006	—0·0020	— 0·005
2126	7325	...	...	23752	Lacaille 7325	6·5*	95·53	3	17 25 21·979	+ 4·2251	+ 0·010	...	...
2127	7341	...	5916	23777	Lacaille 7341	7*	86·84	4	17 26 2·550	+ 3·8227	+ 0·007	...	...
2128†	2210*	121	5915	23778	35 Scorpii .....λ	1·8	90·42	12	17 26 8·306	+ 4·0698	+ 0·009	—0·0028	+ 0·001
2129	7321	...	5913	23785	Lacaille 7321	6·7*	94·39	3	17 26 26·039	+ 4·8452	+ 0·016	...	...
2130	...	128	5920	23797	Piazzi XVII. 128	7*	90·58	6	17 26 35·040	+ 3·4874	+ 0·005	0·000	0·000
2131	7078	...	...	23696	Lacaille 7078	6·4	91·34	28	17 26 52·346	+18·722	+ 0·566	...	...
2132	7347	...	5924	23810	Lacaille 7347	7¾*	88·34	4	17 27 30·315	+ 3·8929	+ 0·007	...	...
2133	...	...	...	...	Lalande 32012.....	6·5	90·74	6	17 28 36·032	+ 2·6078	+ 0·003	...	...
2134†	7342	...	5930	23838	Aræ.....π	5·2	91·36	8	17 29 3·508	+ 4·9245	+ 0·015	—0·012	+ 0·016
2135†	7351	138	5935	23849	Scorpii .....θ	2·0	91·41	5	17 29 24·832	+ 4·3049	+ 0·010	—0·0016	+ 0·002

2112. *b* Ophiuchi in B.A.C. and C.G.A.
2125. Fundamental star for Southern Zones. c^2 Ophiuchi in B.A.C., *c* Ophiuchi in C.G.A.

No.	Mean Date. 1800+	No. of Obs.	Mean Dec. 1890·0.	Sec. of Final Dec.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_δ.	Corr. for μ_δ to 1890·0.	Fallows and Henderson.	Johnson.	Cape Catalogues. 1840.	1850.	1860.	1880.	1885.	Melbourne, 1870 and 1880.
			° ′ ″	″	″	″	″	″								
2101	95·52	3	— 24 47 38·71	38·86	— 3·918	+ 0·53	— 0·039	+0·22	...	...	...	3267	...	9445	1211	872
2102	89·89	9	— 24 53 20·46	20·50	— 3·891	+ 0·53	— 0·025	0·00	...	432	2301	3271	737	9452	1212	873*
2103	91·06	6	— 31 11 13·73	13·77	— 3·889	+ 0·55	...	...	...	...	...	3269	...	9451	...	...
2104	91·30	6	— 56 16 22·82	22·71	— 3·815	+ 0·72	— 0·010	+0·01	278*	429	2298	3270	738	9457	1213	874
2105	91·11	11	— 55 25 29·14	29·11	— 3·813	+ 0·71	— 0·022	+0·02	*42*	430	2299	3272	739	9459	1214	875
2106	87·44	6	— 44 3 21·10	21·30	— 3·805	+ 0·62	...	...	...	...	...	3273	740	9460	...	...
2107	87·01	5	— 29 42 52·58	52·84	— 3·750	+ 0·55	...	...	...	...	...	...	...	9468	...	...
2108	95·53	3	— 23 44 21·23	21·39	— 3·719	+ 0·53	...	...	...	...	...	3278	...	9472	...	...
2109	91·34	8	+ 40 4 59·06	58·60	— 3·644	+ 0·28	...	...	...	...	...	...	...	...	...	...
2110	87·41	6	— 29 34 7·72	7·93	— 3·613	+ 0·55	...	...	...	...	...	3286	...	9484	...	...
2111*	91·46	2	— 86 3 21·81	21·86	— 3·547	+ 3·18	...	...	...	...	...	...	...	...	...	...
2112*	89·50	12	— 24 4 24·03	24·08	— 3·512	+ 0·53	— 0·125	—0·06	...	...	2312	3291	744	9503	1217	877
2113†	91·19	8	+ 37 14 51·24	50·80	— 3·492	+ 0·30	+ 0·016	—0·02	...	...	...	...	...	...	...	...
2114	89·75	12	— 29 46 0·05	0·08	— 3·454	+ 0·55	— 0·146	—0·04	...	435	2316	3296	745	9508	...	878
2115	87·60	6	— 29 37 40·90	41·10	— 3·429	+ 0·55	...	...	...	...	...	3298	...	9509	...	...
2116	95·52	3	— 43 52 49·85	49·95	— 3·392	+ 0·63	...	...	...	...	2318	...	...	9514	...	...
2117	91·92	12	+ 4 14 11·20	11·01	— 3·392	+ 0·43	+ 0·015	—0·03	...	...	...	...	...	9517	1221	*891*
2118	92·00	8	— 60 35 26·21	26·21	— 3·382	+ 0·78	— 0·110	+0·22	...	434	2313	3293	746	9513	1220	879
2119	92·07	6	— 36 41 7·63	7·66	— 3·354	+ 0·58	...	...	...	...	...	3303	...	9518	...	*892*
2120†	86·93	6	— 25 25 1·52	1·80	— 3·323	+ 0·53	...	...	...	...	...	3306	...	9523	...	...
2121*	87·60	3	— 26 30 26·85	27·10	— 3·210	+ 0·54	...	...	...	...	...	...	...	...	...	...
2122	90·59	6	— 37 12 25·59	25·56	— 3·199	+ 0·59	— 0·037	+0·02	...	437	2326	3309	751	9532	1222	...
2123	91·70	9	— 49 47 16·20	16·17	— 3·195	+ 0·67	— 0·078	+0·13	279*	436	2324	3308	750	9530	1223	881
2124	92·82	12	+ 48 21 11·43	10·45	— 3·154	+ 0·23	— 0·023	+0·06	...	...	...	...	...	...	...	...
2125*	87·35	4	— 23 52 36·08	36·34	— 3·077	+ 0·53	— 0·029	—0·08	...	438	2331	3313	...	9544	1225	*894*
2126	95·53	3	— 41 5 27·64	27·75	— 3·019	+ 0·61	...	...	...	...	...	...	...	9552	...	...
2127	86·84	4	— 29 34 10·08	10·35	— 2·960	+ 0·55	...	...	...	...	...	3321	...	9561	...	...
2128	90·42	12	— 37 1 21·82	21·78	— 2·953	+ 0·59	— 0·038	+0·02	280*	439	2334	3320	754	9562	1227	*895*
2129	93·71	4	— 53 16 28·77	28·83	— 2·927	+ 0·70	...	...	...	...	2332	3318	...	9563	...	...
2130	90·58	6	— 17 24 57·47	57·48	— 2·914	+ 0·50	+ 0·03	—0·02	...	...	...	3322	...	...	...	...
2131	89·56	47	— 85 10 5·33	5·34	— 2·888	+ 2·70	...	...	...	...	...	...	...	9538	1226	*893*
2132	88·34	4	— 31 47 41·32	41·53	— 2·834	+ 0·56	...	...	...	...	...	3324	...	9569	...	...
2133	90·74	6	+ 19 20 12·11	11·95	— 2·739	+ 0·38	...	...	...	...	...	...	...	...	...	...
2134	91·36	8	— 54 25 31·74	31·68	— 2·699	+ 0·71	— 0·16	+0·22	...	...	2333	3328	755	9584	...	...
2135	91·41	5	— 42 55 36·80	36·76	— 2·668	+ 0·62	— 0·012	+0·02	281*	440	2341	3333	757	9586	1228	886

2111. Magnitude from Cape observations.
2120. $7^m·9$, $8^m·1$. 0″·9. 100°. Observed as one mass.
2113. $4^m·4$, $5^m·5$. 3″·7. 311°. 1868·69. Brighter star observed.
2121. Magnitude from *Cordoba Durchmusterung*.

No.	Bradley or Lacaille.	Piazzi. 1800.	B.A.C. 1850.	C.G.A. 1875.	Star's Name.	Mag.	Mean Date. 1800+	No. of Obs.	Mean R.A. 1890·0.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_α.	Corr. for μ_α to 1890·0.
									h m s	s	s	s	s
2136	2218	153	5941	...	55 Ophiuchi .....α	2·2	89·33	33	17 29 49·648	+ 2·7753	+ 0·003	+ 0·0066	+ 0·004
2137	7352	...	...	23855	Lacaille 7352	6·7*	95·54	2	17 29 54·659	+ 4·1079	+ 0·008	...	...
2138*	2217	157	5949	23879	55 Serpentis .....ξ	3·7	89·12	24	17 31 17·241	+ 3·4361	+ 0·005	— 0·0050	— 0·004
2139	7184	...	...	23843	Lacaille 7184	7·3	88·26	15	17 31 33·646	+14·184	+ 0·254	...	...
2140	...	...	...	...	Lalande 32133.....	6·3†	90·90	6	17 31 48·420	+ 2·3595	+ 0·003	...	...
2141	...	...	...	23897	Lalande 32092.....	6·1*	92·59	12	17 32 3·359	+ 3·3271	+ 0·004	...	...
2142	7375	...	...	23922	Lacaille 7375	6·9*	91·12	4	17 33 28·035	+ 4·6806	+ 0·011	...	...
2143	7370	...	...	23947	Lacaille 7370	6·9*	91·92	5	17 34 9·654	+ 5·1153	+ 0·015	...	...
2144	...	...	...	23959	C.G.A. 23959	8*	93·61	3	17 34 32·580	+ 4·2035	+ 0·008	...	...
2145†	7393	174	5970	23966	Scorpii .....κ	2·6	89·37	11	17 34 52·641	+ 4·1476	+ 0·007	— 0·0032	— 0·002
2146†	7364	...	5963	23958	Pavonis .....η	3·5	91·24	6	17 34 56·156	+ 5·8800	+ 0·022	— 0·0055	+ 0·007
2147	...	...	...	...	C.Z. XVII. 2328	8½*	95·58	6	17 35 11·009	+ 4·2689	+ 0·008	...	...
2148	7397	179	5974	23982	Lacaille 7397	5·4	90·77	4	17 35 22·878	+ 4·0701	+ 0·007	— 0·002*	+ 0·002
2149†	7385	...	5971	23974	Aræ .....μ	5·3	93·26	10	17 35 24·584	+ 4·7600	+ 0·011	— 0·004	+ 0·013
2150	...	...	...	...	C.Z. XVII. 2365	9¼*	95·64	4	17 35 40·809	+ 4·2286	+ 0·008	...	...
2151	2233	211	5990	...	85 Herculis .....ι	3·9	...	...	17 36 22	+ 1·6924	+ 0·004	— 0·0004	...
2152	...	...	...	...	C.Z. XVII. 2418	8¼*	95·64	4	17 36 24·239	+ 4·2535	+ 0·008	...	...
2153	7404	...	5982	24021	Lacaille 7404	6·5*	95·65	4	17 36 48·639	+ 4·2989	+ 0·008	...	...
2154	2226	192	5987	24030	58 Ophiuchi	5·0	95·54	3	17 36 50·269	+ 3·5999	+ 0·005	— 0·0071	+ 0·039
2155	...	...	5997	...	Lalande 32381.....	6·5†	86·67	2	17 37 17·840	+ 1·8090	+ 0·003	...	...
2156*	2229	209	5996	...	60 Ophiuchi .....β	2·9	88·92	26	17 38 2·295	+ 2·9651	+ 0·003	— 0·0041	— 0·004
2157	...	...	...	...	C.P.D. — 26° No. 5952	9·1‡	87·61	5	17 38 48·560	+ 3·7392	+ 0·005	...	...
2158	...	...	...	...	C.Z. XVII. 2619	9½*	95·60	6	17 39 28·829	+ 4·2707	+ 0·007	...	...
2159	7403	...	5995	24091	Lacaille 7403	6·6*	89·42	6	17 39 42·325	+ 5·5428	+ 0·015	...	...
2160†	7425	210	6004	24107	Scorpii .....ι¹	3·1	88·07	13	17 39 53·403	+ 4·1932	+ 0·006	— 0·0014	— 0·003
2161†	2230*	217	6008	24120	3 Sagittarii .....(X)	Var.	90·56	12	17 40 38·138	+ 3·7745	+ 0·005	— 0·0024	+ 0·001
2162	...	...	...	...	C.Z. XVII. 2686	9*	95·64	4	17 40 43·269	+ 4·3139	+ 0·007	...	...
2163	...	...	...	...	Lalande 32505.....	6·5	91·24	6	17 41 32·057	+ 2·2544	+ 0·003	...	...
2164	7450	223	6015	24156	Lacaille 7450	6·7*	95·54	2	17 41 35·039	+ 3·7496	+ 0·005	— 0·001	+ 0·006
2165	...	...	...	...	C.Z. XVII. 2766	8¼*	95·65	4	17 41 59·389	+ 4·2477	+ 0·006	...	...
2166	7451	227	6016	24169	Lacaille 7451	5·0	95·55	3	17 42 1·669	+ 3·8945	+ 0·005	— 0·001*	+ 0·006
2167	2237	244	6021	...	86 Herculis.....μ	3·5	89·69	13	17 42 9·178	+ 2·3702	+ 0·003	— 0·0244	— 0·008
2168†	7449	229	6018	24179	Scorpii .....G	3·2	92·80	7	17 42 22·216	+ 4·0771	+ 0·005	+ 0·0021	— 0·006
2169*	2236	239	6020	...	62 Ophiuchi .....γ	3·8	...	...	17 42 23	+ 3·0085	+ 0·003	— 0·0037	...
2170	7447	228	6019	24182	Scorpii .....ι²	4·9	93·17	6	17 42 29·487	+ 4·1931	+ 0·006	...	...

2168. B.A.C. gives no letter.

No.	Mean Date. 1800+	No. of Obs.	Mean Dec. 1890·0.	Sec. of Final Dec.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_δ.	Corr. for μ_δ to 1890·0.	Fallows and Henderson.	Johnson.	Cape Catalogues. 1840.	1850.	1860.	1880.	1885.	Melbourne, 1870 and 1880.
			° ′ ″	″	″	″	″	″								
2136	89·72	36	+ 12 38 26·27	26·01	— 2·633	+ 0·40	— 0·217	—0·06	*141*	...	2344	2335	760	9591	1231	888*
2137	95·54	3	— 37 59 46·56	46·67	— 2·625	+ 0·60	...	...	...	...	...	...	...	9589	...	...
2138	89·78	32	— 15 19 42·90	43·06	— 2·506	+ 0·50	— 0·047	—0·01	282	441	2347	3340	762	9601	1233	*897*
2139	87·89	25	— 83 11 29·66	29·70	— 2·482	+ 2·05	...	...	...	...	...	...	...	9588	1232	...
2140	90·90	6	+ 28 15 13·10	12·83	— 2·461	+ 0·34	...	...	...	...	...	...	...	...	...	...
2141	92·30	14	— 10 51 34·52	34·64	— 2·439	+ 0·48	...	...	...	...	...	...	...	...	...	...
2142	91·22	5	— 50 27 3·43	3·36	— 2·316	+ 0·68	...	...	...	...	...	...	...	9615	...	...
2143	92·34	6	— 56 57 55·32	55·31	— 2·256	+ 0·74	...	...	...	...	...	...	...	9625	...	...
2144	93·61	3	— 40 24 15·84	16·10	— 2·223	+ 0·61	...	...	...	...	...	...	...	...	...	...
2145	89·14	12	— 38 58 20·51	20·59	— 2·194	+ 0·60	— 0·011	—0·01	283*	444	2352	3359	767	9632	1237	890
2146	91·07	8	— 64 40 11·18	11·15	— 2·189	+ 0·85	— 0·045	+0·05	...	443	2350	3351	...	9628	1236	889
2147	95·58	6	— 41 59 37·31	37·40	— 2·167	+ 0·62	...	...	...	...	...	...	...	...	...	...
2148	90·77	4	— 36 53 20·77	20·82	— 2·150	+ 0·59	— 0·11*	+0·08	...	...	2354	3361	768	9638	...	...
2149	93·26	10	— 51 46 27·97	28·02	— 2·148	+ 0·69	— 0·20	+0·65	...	...	2353	3357	...	9636	...	...
2150	95·64	4	— 41 0 45·05	45·15	— 2·124	+ 0·61	...	...	...	...	...	...	...	...	...	...
2151	90·67	9	+ 46 3 55·43	54·69	— 2·066	+ 0·25	+ 0·005	0·00	...	...	...	...	...	...	1241	...
2152	95·64	4	— 41 36 30·83	30·93	— 2·061	+ 0·62	...	...	...	...	...	...	...	...	...	...
2153	95·65	4	— 42 40 41·18	41·28	— 2·024	+ 0·62	...	...	...	...	...	3368	...	9652	...	892
2154	95·54	3	— 21 37 44·47	44·62	— 2·024	+ 0·52	— 0·043	+0·24	...	446	2358	3370	...	9653	...	...
2155	90·30	6	+ 43 31 31·10	30·52	— 1·983	+ 0·26	...	...	...	...	...	...	...	...	...	...
2156	89·15	39	+ 4 36 49·38	49·16	— 1·919	+ 0·43	+ 0·167	+0·14	...	...	2362	...	...	9666	1243	*902*
2157*	87·61	5	— 26 36 9·16	9·41	— 1·852	+ 0·54	...	...	...	...	...	...	...	...	...	...
2158	95·60	6	— 41 59 4·05	4·14	— 1·793	+ 0·62	...	...	...	...	...	...	...	...	...	...
2159	89·42	6	— 61 40 24·66	24·63	— 1·774	+ 0·81	...	...	...	...	...	3374	...	9672	....	894
2160	88·07	13	— 40 5 0·43	0·57	— 1·757	+ 0·61	+ 0·001	0·00	284*	447	2363	3377	772	9675	1244	896
2161*	90·56	12	— 27 47 17·21	17·31	— 1·693	+ 0·55	— 0·018	+0·01	...	448	2367	3379	773	9679	...	...
2162	95·64	3	— 42 58 49·38	49·47	— 1·684	+ 0·63	...	...	...	...	...	...	...	...	...	...
2163	91·24	6	+ 31 32 54·27	53·97	— 1·614	+ 0·33	...	...	...	...	...	...	...	...	...	...
2164	95·54	2	— 26 56 5·68	5·81	— 1·610	+ 0·54	— 0·04	+0·22	...	...	...	3384	...	9691	...	...
2165	95·65	4	— 41 24 15·36	15·47	— 1·573	+ 0·62	...	...	...	...	...	...	...	...	...	...
2166	95·55	3	— 31 39 52·09	52·21	— 1·570	+ 0·57	— 0·04*	+0·22	...	...	2370	3385	775	9698	...	...
2167	89·69	13	+ 27 47 7·96	7·69	— 1·560	+ 0·35	— 0·745	—0·23	...	...	...	...	779	9706	1251	897*
2168*	92·52	8	— 37 0 25·84	25·89	— 1·541	+ 0·59	+ 0·023	—0·06	...	449	2371	3387	776	9705	1252	*903*
2169	90·59	1	+ 2 44 55·93	55·87	— 1·541	+ 0·44	— 0·056	+0·03	...	...	...	...	...	...	1253	*905*
2170	92·81	7	— 40 3 13·57	13·63	— 1·530	+ 0·61	...	...	...	...	2373	3388	778	9707	...	...

2157. Magnitude from *Cordoba Durchmusterung*.

2161. Limits of magnitude 4—5. Period $7^d{\cdot}01185$.

No.	Bradley or Lacaille.	Piazzi. 1800.	B.A.C. 1850.	C.G.A. 1875.	Star's Name.	Mag.	Mean Date. 1800+	No. of Obs.	Mean R.A. 1890·0.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_α.	Corr. for μ_α to 1890·0.
									h m s	s	s	s	s
2171	7452	...	...	24195	Lacaille 7452	7·0*	95·63	4	17 43 0·229	+ 4·2853	+ 0·006	...	...
2172	7458	236	...	24218	Lacaille 7458	6·5*	95·56	2	17 43 48·429	+ 4·2210	+ 0·006	...	...
2173	...	...	6036	...	Lalande 32641.....	6·3	...	...	17 44 11	+ 1·6093	+ 0·003	...	...
2174	2239	259	6033	...	87 Herculis	5·4	89·99	8	17 44 21·501	+ 2·4318	+ 0·003	— 0·0010	0·000
2175	...	...	...	...	Lalande 32631.....	7·0†	...	...	17 44 30	+ 2·0202	+ 0·003	...	...
2176	7463	...	6028	24241	Lacaille 7463	6·8*	95·60	6	17 45 0·949	+ 4·2720	+ 0·005	...	...
2177	7468	...	...	24255	Lacaille 7468	7*	93·84	4	17 45 34·200	+ 4·0275	+ 0·004	...	...
2178	...	...	...	24263	W.B. XVII. 871	8·3†	89·90	6	17 45 48·285	+ 3·2182	+ 0·003	...	...
2179	...	...	...	24274	Lalande 32633.....	6·6*	90·38	5	17 46 18·258	+ 3·1007	+ 0·003	...	...
2180	...	...	...	24286	Ophiuchi .....Y	Var.	94·57	4	17 46 44·790	+ 3·2155	+ 0·003	...	...
2181	2244	282	6056	...	88 Herculis .....z	6·4	...	...	17 47 10	+ 1·5677	+ 0·003	+ 0·0006	...
2182	...	...	...	...	C.Z. XVII. 3167	9½*	86·60	2	17 47 45·450	+ 3·7808	+ 0·003	...	...
2183	2241*	267	6053	24312	63 Ophiuchi	6·2	94·41	3	17 48 7·780	+ 3·6912	+ 0·003	— 0·0022	+ 0·010
2184	...	...	...	...	C.P.D. — 27° No. 5876..	9·3‡	86·62	3	17 48 41·110	+ 3·7758	+ 0·003	...	...
2185	7485	...	6055	24321	Lacaille 7485	4·9	88·55	5	17 48 45·832	+ 4·3766	+ 0·004	...	...
2186	7494	...	6057	24327	Lacaille 7494	7·0*	94·60	4	17 49 4·380	+ 3·9217	+ 0·003	...	...
2187	...	...	...	24328	C.G.A. 24328 .....pr	7¾*	93·62	4	17 49 9·730	+ 4·1896	+ 0·004	...	...
2188	...	...	...	...	C.P.D. — 27° No. 5885...	9·1‡	86·65	2	17 49 37·440	+ 3·7714	+ 0·003	...	...
2189	...	...	...	...	C.Z. XVII. 3294	9*	93·63	3	17 49 45·320	+ 4·1862	+ 0·004	...	...
2190	...	...	...	...	W.B. XVII. 975	7·0†	92·51	5	17 49 53·550	+ 2·9386	+ 0·002	...	...
2191	7492	...	...	24346	Lacaille 7492	8*	94·03	6	17 49 57·598	+ 4·4288	+ 0·004	...	...
2192	7001	...	5936	24176	Octantis.....χ	5·2	91·34	50	17 50 6·998	+35·790	+ 0·691	— 0·118†	+ 0·158
2193	2249	298	6073	...	89 Herculis	5·6	92·71	7	17 50 58·924	+ 2·4190	+ 0·002	+ 0·0003	— 0·001
2194	7513	...	6070	24388	Lacaille 7513	6·3*	92·40	4	17 51 27·260	+ 4·0736	+ 0·003	...	...
2195	...	...	...	...	Lalande 32880.....	7·3†	93·99	5	17 51 39·684	+ 2·5888	+ 0·002	...	...
2196	7481	...	6067	24398	Lacaille 7481	7¼*	93·14	5	17 52 16·709	+ 6·1502	+ 0·008	...	...
2197	2256	309	6082	...	91 Herculis.....θ	4·0	...	...	17 52 29	+ 2·0559	+ 0·002	— 0·0018	...
2198	...	...	...	24431	C.G.A. 24431	8¼*	93·61	3	17 52 52·850	+ 4·1802	+ 0·003	...	...
2199*	2250	303	6078	24436	64 Ophiuchi .....ν	3·5	89·07	15	17 52 58·222	+ 3·3023	+ 0·002	— 0·0019	— 0·002
2200	2246*	299	6077	24438	4 Sagittarii.....	4·6	94·64	2	17 53 4·490	+ 3·6620	+ 0·003	— 0·0013	+ 0·006
2201	2258	314	6084	...	92 Herculis.....ξ	3·9	93·72	8	17 53 29·424	+ 2·3238	+ 0·002	+ 0·006	— 0·022
2202	...	...	...	...	C.P.D. — 26° No. 6156..	8·6‡	87·62	3	17 54 54·670	+ 3·7424	+ 0·002	...	...
2203*	2259	322	6092	...	67 Ophiuchi.....	4·0	88·33	3	17 55 8·073	+ 3·0039	+ 0·002	— 0·0003	— 0·001
2204†	7473	...	...	24483	Lacaille 7473	5·6	92·38	12	17 55 52·342	+ 8·3903	+ 0·010	— 0·01	+ 0·024
2205	2260*	332	6102	24550	9 Sagittarii.....	5·7	86·93	3	17 57 7·767	+ 3·6778	+ 0·002	— 0·0031	— 0·010

2192. Identical with Brisbane 6058. B.A.C. gives no letter.

No.	Mean Date. 1800+	No. of Obs.	Mean Dec. 1890·0.	Sec. of Final Dec.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion, μ_δ.	Corr. for μ_δ to 1890·0.	Fallows and Henderson.	Johnson.	Cape Catalogues. 1840.	1850.	1860.	1880.	1885.	Melbourne, 1876 and 1880.
			° ′ ″	″	″	″	″	″								
2171	95·63	4	− 42 17 36·17	36·27	− 1·485	+ 0·62	...	...	...	...	...	...	...	9711	...	...
2172	95·56	3	− 40 44 17·04	17·13	− 1·416	+ 0·62	...	...	...	...	...	...	...	9720	...	...
2173	91·60	8	+ 47 39 2·94	2·10	− 1·383	+ 0·24	...	...	...	...	...	...	...	...	...	...
2174	89·99	8	+ 25 39 35·29	35·03	− 1·368	+ 0·35	− 0·037	0·00	...	...	...	...	...	...	...	...
2175	94·05	6	+ 38 16 16·70	16·16	− 1·354	+ 0·30	...	...	...	...	...	...	...	...	...	...
2176	95·60	6	− 41 57 40·59	40·68	− 1·310	+ 0·62	...	...	...	...	...	3395	...	9726	...	...
2177	93·84	4	− 35 35 38·35	38·45	− 1·262	+ 0·59	...	...	...	...	...	...	...	9734	...	...
2178	89·90	6	− 6 13 47·65	47·82	− 1·241	+ 0·47	...	...	...	...	...	...	...	...	...	...
2179	89·92	6	− 1 12 28·23	28·40	− 1·198	+ 0·45	...	...	...	...	...	...	...	...	1256	...
2180*	94·57	4	− 6 6 57·29	57·54	− 1·159	+ 0·47	...	...	...	...	...	...	...	...	...	...
2181	91·97	8	+ 48 25 27·91	26·98	− 1·122	+ 0·23	+ 0·016	−0·03	...	...	...	...	...	...	...	...
2182	86·60	2	− 27 57 1·22	1·50	− 1·071	+ 0·55	...	...	...	...	...	...	...	...	...	...
2183	94·41	3	− 24 51 50·78	50·97	− 1·038	+ 0·54	− 0·002	+0·09	...	...	2380	3416	...	9757	...	...
2184*	86·62	3	− 27 46 39·70	39·96	− 0·990	+ 0·55	...	...	...	...	...	...	...	...	...	...
2185	88·40	6	− 44 19 20·43	20·57	− 0·983	+ 0·64	...	...	...	...	...	3418	...	9759	...	...
2186	94·60	4	− 32 27 19·63	19·83	− 0·956	+ 0·57	...	...	...	...	...	3419	...	9763	...	...
2187†	93·62	3	− 39 54 50·86	51·12	− 0·948	+ 0·61	...	...	...	...	...	...	...	...	...	...
2188*	86·65	2	− 27 37 27·57	27·81	− 0·908	+ 0·55	...	...	...	...	...	...	...	...	...	...
2189	93·63	3	− 39 49 28·97	29·21	− 0·897	+ 0·61	...	...	...	...	...	...	...	...	...	...
2190	92·84	6	+ 5 43 28·63	28·45	− 0·884	+ 0·43	...	...	...	...	...	...	...	...	...	...
2191	94·03	6	− 45 26 24·00	24·10	− 0·878	+ 0·65	...	...	...	...	...	...	...	9770	...	...
2192*	90·43	130	− 87 39 44·50	44·41	− 0·865	+ 5·22	− 0·124†	+0·05	...	433	...	3332	766	9725	1259	895*
2193	92·71	7	+ 26 4 4·96	4·61	− 0·789	+ 0·35	+ 0·009	−0·02	...	...	...	...	...	9781	...	*911*
2194	92·40	4	− 36 50 45·40	45·37	− 0·748	+ 0·59	...	...	...	...	...	3430	...	9784	...	904
2195	94·09	6	+ 19 54 18·78	18·45	− 0·729	+ 0·38	...	...	...	...	...	...	...	...	...	...
2196	93·36	6	− 66 31 54·76	54·85	− 0·676	+ 0·90	...	...	...	...	2383	3428	...	9792	...	905
2197	92·88	8	+ 37 15 56·59	55·09	− 0·659	+ 0·30	+ 0·024	−0·07	...	...	...	...	...	...	1262	...
2198	93·61	3	− 39 39 27·79	28·05	− 0·623	+ 0·61	...	...	...	...	...	...	787	...	...	...
2199	91·15	26	− 9 45 34·02	34·17	− 0·615	+ 0·48	− 0·105	+0·12	285	452	...	3437	...	9802	1263	*912*
2200	94·62	3	− 23 48 18·33	18·56	− 0·606	+ 0·53	− 0·054	+0·25	...	451	2388	3436	788	9803	...	...
2201	93·72	8	+ 29 15 36·12	35·73	− 0·570	+ 0·34	− 0·028	+0·10	...	...	...	...	...	...	1264	...
2202*	87·62	3	− 26 37 20·47	20·72	− 0·445	+ 0·55	...	...	...	...	...	...	...	...	...	...
2203	87·83	6	+ 2 56 15·28	15·04	− 0·426	+ 0·44	− 0·005	−0·01	...	...	...	...	...	...	1266	*913*
2204	91·75	24	− 75 53 31·77	31·70	− 0·362	+ 1·22	− 0·3	+0·53	...	...	...	...	...	9816	...	...
2205	86·93	3	− 24 21 42·77	43·05	− 0·251	+ 0·54	− 0·005	−0·02	...	...	2402	3451	...	9827	...	...

2180. Limits of magnitude, 6·2—7·0. Period $17^d{\cdot}1207$.
2187. $7^m{\cdot}8$, $9^m{\cdot}5$ 4″. 121°. 1880·6. Brighter star observed.

2184, 2188, 2202. Magnitude from *Cordoba Durchmusterung*.
2192. Proper Motion determined for this Catalogue.

No.	Bradley or Lacaille.	Piazzi. 1800.	B.A.C. 1850.	C.G.A. 1875.	Star's Name.	Mag.	Mean Date. 1800+	No. of Obs.	Mean R.A. 1890·0.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_α.	Corr. for μ_α to 1890·0.
									h m s	s	s	s	s
2206	...	333	...	24553	Piazzi XVII. 333	8¼*	86·58	2	17 57 12·330	+ 3·6764	+ 0·002	...	...
2207	7348	...	...	24468	Lacaille 7348	6·6	87·76	8	17 57 28·389	+16·758	+ 0·029	...	...
2208	...	...	...	24566	Lalande 33058.....	7·7†	90·90	6	17 57 33·597	+ 3·6263	+ 0·002	...	...
2209†	7527	...	6100	24559	Pavonis .....π	4·4	92·87	9	17 57 59·322	+ 5·7739	+ 0·002	0·000	0·000
2210	7552	339	6107	24577	Sagittarii .....(W)	Var.	91·28	3	17 57 59·597	+ 3·8314	+ 0·002	0·000*	0·000
2211	7535	...	6105	24574	Aræ .....θ	3·8	91·40	6	17 58 4·087	+ 4·6712	+ 0·002	—0·002*	+ 0·003
2212	7507	...	...	24570	Lacaille 7507	6·0	93·04	4	17 58 35·865	+ 7·6381	+ 0·002	...	...
2213†	2266*	343	6115	24596	10 Sagittarii .....γ	3·0	88·43	7	17 58 44·491	+ 3·8576	+ 0·002	—0·0062	— 0·010
2214	7570	351	6120	24623	Lacaille 7570	8*	93·74	4	17 59 48·315	+ 3·7945	+ 0·002	...	...
2215	2271	358	6123	...	70 Ophiuchi	*	89·33	6	17 59 53·807	+ 3·0135	+ 0·002	+0·0146	+ 0·010
2216	7582	...	6131	24675	Lacaille 7582	7·4*	88·59	3	18 1 52·153	+ 3·8813	+ 0·002	...	...
2217	7580	...	...	24677	Lacaille 7580	6·7*	91·13	4	18 1 54·890	+ 4·0685	+ 0·002	...	...
2218	...	...	...	...	C.P.D. — 35° No. 7753..	9·9‡	87·63	3	18 1 55·570	+ 4·0416	+ 0·001	...	...
2219	2275	374	6143	...	72 Ophiuchi	3·9	89·88	42	18 2 8·062	+ 2·8476	+ 0·002	—0·0056	— 0·001
2220	7588	...	6139	24698	Lacaille 7588	7·0*	90·22	13	18 2 47·388	+ 3·9317	+ 0·001	...	...
2221†	7581	361	6140	24703	Telescopii .....ε	4·5	94·59	12	18 3 3·830	+ 4·4555	+ 0·001	—0·0045	+ 0·021
2222	2281	388	6150	...	103 Herculis. .....o	4·0	92·88	8	18 3 15·059	+ 2·3392	+ 0·002	—0·0007	+ 0·002
2223	2280	390	6152	...	100 Herculis (N. Star).....	6·0	94·67	3	18 3 23·410	+ 2·4182	+ 0·002	+0·001	— 0·005
2224	2279	389	6151	...	100 Herculis (S. Star).....	6·0	94·14	6	18 3 23·420	+ 2·4182	+ 0·002	—0·0019	+ 0·008
2225	2282	1	6157	...	102 Herculis	4·5	90·72	8	18 4 3·209	+ 2·5648	+ 0·002	—0·0006	0·000
2226	...	...	...	...	C.P.D. — 26° No. 6333..	9·1‡	87·68	4	18 4 25·530	+ 3·7438	+ 0·001	...	...
2227	7609	...	6160	24751	Lacaille 7609	7¼	93·08	4	18 4 58·740	+ 3·8110	+ 0·001	...	...
2228	...	...	...	24659	Brisbane 6229.....	8·1	95·76	10	18 6 24·394	+23·559	— 0·191	...	...
2229*	2284	7	6168	24812	13 Sagittarii .....μ	4·1	86·67	6	18 7 11·027	+ 3·5877	+ 0·001	—0·0016	— 0·005
2230	...	...	...	24814	Brisbane 6351.....	7·1	89·85	12	18 7 30·925	+ 4·0119	0·000	...	...
2231†	7608	...	6167	24816	Lacaille 7608	5·5	91·32	10	18 7 51·371	+ 5·0575	— 0·003	—0·008	+ 0·011
2232	...	...	...	...	W.B. (2) XVIII. 216...	7·0†	92·92	6	18 9 1·097	+ 2·4148	+ 0·002	...	...
2233	...	...	...	...	C.P.D. — 26° No. 6379..	9·9‡	87·67	5	18 9 23·640	+ 3·7422	0·000	...	...
2234†	7643	17	6186	24888	Sagittarii.....*pr.* η	3·0	92·02	6	18 10 10·918	+ 4·0714	— 0·001	—0·0138	+ 0·028
2235	7631	...	...	24885	Lacaille 7631	7¼*	92·94	6	18 10 19·045	+ 4·7822	— 0·003	...	...
2236	...	...	...	...	C.P.D. — 26° No. 6386..	9·3‡	87·65	3	18 10 23·710	+ 3·7415	0·000	...	...
2237	7653	...	6190	24898	Lacaille 7653	6·6*	93·13	4	18 10 25·620	+ 3·8033	0·000	...	...
2238	...	...	6203	...	Lalande 33739.....	5·3	88·60	2	18 12 13·435	+ 1·8653	+ 0·002	—0·0078	— 0·011
2239	7641	...	6200	24959	Lacaille 7641	6·9*	93·45	6	18 13 4·508	+ 5·4603	— 0·008	...	...
2240†	7638	...	6198	24958	Pavonis .....*pr.* ξ	4·2	92·02	12	18 13 5·257	+ 5·5349	— 0·008	—0·0054	+ 0·011

2210. γ^1 Sagittarii in B.A.C.
2213. γ^2 Sagittarii in B.A.C.
2229. Fundamental star for Southern Zones.
2240. B.A.C. gives no letter.

No.	Mean Date. 1800+	No. of Obs.	Mean Dec. 1890·0.	Sec. of Final Dec.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_δ.	Corr. for μ_δ to 1890·0.	Fallows and Henderson.	Johnson.	Cape Catalogues. 1840.	1850.	1860.	1880.	1885.	Melbourne, 1870 and 1880.
			° ′ ″	″	″	″	″	″								
2206	86·58	2	— 24 18 50·73	51·03	— 0·245	+ 0·54	...	...	...	...	...	3453	...	9829	...	...
2207	87·16	27	— 84 25 16·04	16·10	— 0·222	+ 2·45	...	...	...	...	...	...	...	9817	1268	...
2208*	90·90	6	— 22 30 12·06	12·11	— 0·214	+ 0·53	...	...	...	...	...	...	...	...	...	...
2209	93·04	10	— 63 40 17·83	17·86	— 0·176	+ 0·84	— 0·220	+0·67	...	...	2400	3450	791	9833	...	908
2210*	91·38	4	— 29 35 3·00	2·96	— 0·175	+ 0·56	— 0·01*	+0·01	...	456	2404	3457	795	9839	...	910
2211	91·40	6	— 50 5 50·89	50·99	— 0·169	+ 0·68	— 0·01*	+0·01	287	454	2403	3455	794	9836	1270	909
2212	93·53	6	— 73 40 47·02	47·01	— 0·123	+ 1·11	...	...	...	...	...	...	...	9838	...	...
2213*	88·43	7	— 30 25 27·87	28·02	— 0·110	+ 0·56	— 0·186	—0·29	...	457	2406	3462	797	9852	1272	*915*
2214	93·74	4	— 28 22 20·18	20·29	— 0·017	+ 0·55	...	...	...	...	...	3466	...	9860	...	...
2215†	89·33	6	+ 2 31 32·68	32·59	— 0·009	+ 0·44	— 1·109	—0·74	...	...	...	...	...	...	...	...
2216	88·10	4	— 31 10 26·07	26·22	+ 0·163	+ 0·56	...	...	...	...	...	3472	...	9876	...	...
2217	91·13	4	— 36 41 15·03	14·96	+ 0·168	+ 0·59	...	...	...	...	...	...	...	9877	...	...
2218*	87·63	3	— 35 56 22·33	22·56	+ 0·168	+ 0·59	...	...	...	...	...	...	...	...	...	...
2219†	89·13	46	+ 9 32 55·37	55·14	+ 0·187	+ 0·42	+ 0·089	+0·08	...	...	...	...	...	9881	1278	*916*
2220	90·03	14	— 32 43 55·67	55·77	+ 0·244	+ 0·57	...	...	...	...	...	3481	...	9887	...	...
2221	93·79	15	— 45 58 20·81	20·93	+ 0·268	+ 0·65	— 0·036	+0·14	...	459	2413	3479	...	9889	1279	916
2222	92·88	8	+ 28 44 51·98	51·62	+ 0·284	+ 0·34	+ 0·003	—0·01	...	...	...	...	...	...	1280	...
2223	94·67	3	+ 26 5 8·52	8·08	+ 0·296	+ 0·35	+ 0·025	—0·12	...	...	...	...	...	...	...	...
2224	94·14	6	+ 26 4 53·68	53·28	+ 0·296	+ 0·35	+ 0·027	—0·11	...	...	...	...	...	...	...	...
2225	90·72	8	+ 20 47 51·17	51·01	+ 0·354	+ 0·37	— 0·013	+0·01	...	...	...	...	...	...	...	...
2226*	87·68	4	— 26 39 58·58	58·82	+ 0·387	+ 0·55	...	...	...	...	...	...	...	...	...	...
2227	93·08	4	— 28 55 26·57	26·62	+ 0·436	+ 0·56	...	...	...	...	...	3491	...	9906	...	...
2228	95·76	10	— 86 16 4·58	4·52	+ 0·561	+ 3·44	...	...	...	...	...	...	...	9892	...	...
2229*	86·40	10	— 21 5 12·33	12·60	+ 0·628	+ 0·52	0·000	0·00	288*	460	2418	3498	803	9932	1282	920*
2230	89·85	12	— 35 6 36·38	36·51	+ 0·658	+ 0·58	...	...	...	...	...	...	...	9935	...	...
2231	91·32	10	— 56 3 23·16	23·07	+ 0·688	+ 0·74	— 0·02	+0·03	...	...	2417	3497	802	9936	...	...
2232	93·39	6	+ 26 12 55·37	55·03	+ 0·789	+ 0·35	...	...	...	...	...	...	...	...	...	...
2233*	87·67	3	— 26 37 39·20	39·44	+ 0·822	+ 0·54	...	...	...	...	...	...	...	...	...	...
2234†	91·26	7	— 36 47 37·70	37·78	+ 0·891	+ 0·59	— 0·161	+0·20	...	461	2422	3512	808	9962	1283	925
2235	92·94	6	— 52 0 15·33	15·36	+ 0·902	+ 0·70	...	...	...	...	2421	...	...	9963	...	...
2236*	87·65	3	— 26 36 31·35	31·59	+ 0·909	+ 0·54	...	...	...	...	...	...	...	...	...	...
2237	93·13	4	— 28 41 20·05	20·11	+ 0·912	+ 0·55	...	...	...	...	...	3516	...	9966	...	...
2238	91·95	8	+ 42 7 20·28	19·67	+ 1·069	+ 0·27	+ 0·004	—0·01	...	...	...	...	...	...	...	...
2239	93·45	6	— 60 47 48·54	48·57	+ 1·143	+ 0·80	...	...	...	...	...	3525	...	9985	...	...
2240†	92·02	12	— 61 32 32·62	32·67	+ 1·144	+ 0·81	+ 0·010	—0·02	...	...	2424	3523	...	9984	...	926

2208. Magnitude in *Uranometria Argentina* 6·8, in *Cordoba Durchmusterung* 8·1.
2210. Limits of magnitude, 4·8–5·8. Period $7^d{\cdot}59460$.
2215. Binary, $4^m{\cdot}3$, $5^m{\cdot}8$. Probably seen as one star.
2218, 2226, 2233, 2236. Magnitude from *Cordoba Durchmusterung*.
2219. Double OΣ: single β.
2234. $3^m{\cdot}0$, $10^m{\cdot}0$ $3''{\cdot}5$ 101°. Brighter star observed.
2240. $4^m{\cdot}2$, $9^m{\cdot}8$ $3''{\cdot}1$ 151°. Brighter star observed.

No.	Bradley or Lacaille.	Piazzi. 1800.	B.A.C. 1850.	C.G.A. 1875.	Star's Name.	Mag.	Mean Date. 1800+	No. of Obs.	Mean R.A. 1890·0.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_α.	Corr. for μ_α to 1890·0.
									h m s	s	s	s	s
2241	2296	...	6210	24986	Bradley 2296	5·8	91·96	6	18 13 48·747	+ 3·4520	0·000	+0·0009	— 0·002
2242†	2294*	32	6209	24987	19 Sagittarii .....δ	2·8	92·00	8	18 13 57·069	+ 3·8390	— 0·001	+0·0011	— 0·002
2243	7682	...	6220	25013	Lacaille 7682	6·5*	93·14	4	18 15 2·485	+ 3·7962	— 0·001	...	...
2244	7677	37	6221	25020	Lacaille 7677	5·6	93·64	4	18 15 25·768	+ 4·0674	— 0·002	...	...
2245*	2298	48	6229	25031	58 Serpentis .....η	3·4	89·86	57	18 15 37·088	+ 3·1407	+ 0·001	—0·0400	— 0·006
2246	...	...	...	25035	Brisbane 6374.....	8½*	94·06	5	18 16 46·354	+ 7·0716	— 0·024	...	...
2247†	2297*	46	6233	25060	20 Sagittarii .....ε	1·9	91·00	12	18 16 52·232	+ 3·9866	— 0·002	—0·0048	+ 0·005
2248	...	...	...	25067	Lalande 33843.....	6·8*	90·26	5	18 16 57·468	+ 3·3141	0·000	...	...
2249	...	...	...	...	C.Z. XVIII. 1071	9*	87·61	3	18 17 48·640	+ 3·7385	— 0·001	...	...
2250	...	...	6245	...	B.D. + 17° No. 3555 ...	5·5	91·02	8	18 17 57·415	+ 2·6453	+ 0·002	...	...
2251	...	...	...	...	Lalande 34011.....	7·3†	...	...	18 18 34	+ 1·8628	+ 0·002	...	...
2252	...	...	...	25109	Lalande 33933.....	6·7*	92·17	6	18 18 44·777	+ 3·2392	0·000	...	...
2253†	7642	...	6230	25083	Lacaille 7642	5·8	93·99	10	18 18 47·682	+ 7·7286	— 0·036	—0·002	+ 0·008
2254†	7694	50	6240	25105	Telescopii .....α	3·7	92·01	8	18 18 48·972	+ 4·4536	— 0·005	—0·0037	+ 0·007
2255	2311	64	6251	...	109 Herculis	3·9	91·00	9	18 19 0·633	+ 2·5418	+ 0·002	+0·0131	— 0·013
2256	7696	...	6248	25137	Lacaille 7696	5·8	89·64	6	18 20 27·947	+ 5·1699	— 0·010	...	...
2257	7442	...	...	25045	Lacaille 7442	8·3	95·72	13	18 20 31·835	+20·654	— 0·446	...	...
2258	2315	78	6268	...	2 Lyræ .....μ	4·9	88·58	2	18 20 36·285	+ 1·9769	+ 0·002	—0·0033	— 0·005
2259†	2310*	66	6263	25171	22 Sagittarii .....λ	3·1	88·20	10	18 21 10·910	+ 3·7069	— 0·001	—0·0053	— 0·010
2260	...	...	...	...	Lalande 34115.....	6·7†	88·96	6	18 22 21·727	+ 2·9869	+ 0·001	...	...
2261	...	...	...	...	C.P.D.—36° No. 8282...	9·6‡	87·63	3	18 22 36·240	+ 4·0596	— 0·003	...	...
2262	7746	79	6285	25259	Lacaille 7746.....*seq.*	5·5	93·01	4	18 23 51·820	+ 3·9380	— 0·003	0·000*	0·000
2263	...	100	6300	...	Piazzi XVIII. 100	5·7	88·79	7	18 25 2·087	+ 2·4865	+ 0·002	...	...
2264†	7756	85	6296	25297	Coronæ Australis .....θ	4·4	89·31	12	18 25 38·828	+ 4·2852	— 0·005	—0·0003	0·000
2265	...	...	...	25326	C.G.A. 25326	8½*	93·63	3	18 26 30·550	+ 4·0537	— 0·004	...	...
2266	2324*	105	6312	25344	24 Sagittarii.....	5·9	91·69	3	18 27 10·260	+ 3·6667	— 0·002	—0·0022	+ 0·004
2267	2330	115	6325	25382	Scuti 3 H.....	4·0	87·50	10	18 29 13·261	+ 3·2665	0·000	—0·0029	— 0·007
2268	...	...	...	...	Lalande 34475	6·6†	...	...	18 29 39	+ 1·9572	+ 0·002	...	...
2269	...	...	...	...	C.P.D.—36° No. 8385...	9·6‡	87·63	3	18 29 51·570	+ 4·0634	— 0·005	...	...
2270†	7736	...	6315	25383	Pavonis .....ζ	4·0	87·89	13	18 30 10·714	+ 7·0380	— 0·044	—0·0079	— 0·017
2271	...	135	...	...	Piazzi XVIII. 135	6·5†	...	...	18 30 41	+ 1·6941	+ 0·001	...	...
2272	...	...	...	...	C.Z. XVIII. 1807	8½*	93·62	3	18 31 29·130	+ 3·8824	— 0·004	...	...
2273*	2333*	129	6343	25435	Bradley 2333	5·8	87·64	3	18 31 49·250	+ 3·6509	— 0·003	—0·0032	— 0·008
2274	...	...	...	...	Lalande 24538.....	6·4	89·15	6	18 32 12·882	+ 2·6903	+ 0·001	...	...
2275	...	...	...	...	Lalande 34575.....	5·3	90·15	6	18 32 35·197	+ 2·2007	+ 0·002	...	...

2267. 1 Aquilæ in B.A.C.

2273. Fundamental star for Southern Zones.

No.	Mean Date. 1800+	No. of Obs.	Mean Dec. 1890·0.	Sec. of Final Dec.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_δ.	Corr. for μ_δ to 1890·0.	Fallows and Henderson.	Johnson.	Cape Catalogues. 1840.	1850.	1860.	1880.	1885.	Melbourne. 1870 and 1880.
			° ′ ″	″	″	″	″	″								
2241	92·32	7	— 15 52 32·97	33·14	+ 1·208	+ 0·50	— 0·06	+0·14	...	...	...	3533	...	...	...	...
2242	92·00	8	— 29 52 26·56	26·60	+ 1·220	+ 0·56	— 0·032	+0·06	...	462	2426	3532	811	9992	1286	927*
2243	93·14	4	— 28 28 45·58	45·64	+ 1·315	+ 0·55	...	...	...	...	...	3540	...	10002	1287	...
2244	93·64	4	— 36 43 11·21	11·33	+ 1·349	+ 0·59	...	...	...	...	2428	3541	...	10003	...	929
2245	88·86	59	— 2 55 35·54	35·70	+ 1·365	+ 0·46	— 0·677	—0·77	...	463	...	3546	...	10008	1288	*923*
2246	94·15	6	— 71 33 42·24	42·30	+ 1·466	+ 1·03	...	...	...	...	...	...	...	10012	...	...
2247	91·00	12	— 34 26 8·43	8·64	+ 1·475	+ 0·58	— 0·138	+0·14	290*	464	2432	3548	815	10015	1289	931
2248	90·96	6	— 10 16 18·91	18·98	+ 1·482	+ 0·48	...	...	...	...	...	...	...	...	...	...
2249	87·61	3	— 26 32 59·00	59·25	+ 1·557	+ 0·54	...	...	...	...	...	...	...	...	...	...
2250	91·02	8	+ 17 46 17·04	16·94	+ 1·570	+ 0·38	...	...	...	...	...	...	...	...	...	...
2251	94·03	5	+ 42 14 5·32	4·68	+ 1·623	+ 0·27	...	...	...	...	...	...	...	...	...	...
2252	92·17	6	— 7 7 59·42	59·55	+ 1·639	+ 0·47	...	...	...	...	...	...	...	...	...	...
2253	93·99	10	— 74 1 54·25	54·27	+ 1·643	+ 1·12	— 0·115	+0·46	...	...	2429	3547	...	10023	...	...
2254	92·01	8	— 46 1 40·44	40·55	+ 1·645	+ 0·65	— 0·057	+0·11	...	465	2436	3551	816	10029	1290	933
2255	90·75	12	+ 21 43 12·43	12·20	+ 1·661	+ 0·37	— 0·257	+0·19	...	...	...	...	...	...	1292	...
2256	89·64	6	— 57 35 22·79	22·77	+ 1·788	+ 0·75	...	...	...	...	...	...	817	10036	...	...
2257	95·72	13	— 85 40 8·58	8·53	+ 1·794	+ 3·00	...	...	...	...	...	...	...	10019	...	...
2258	90·61	9	+ 39 26 51·62	51·17	+ 1·800	+ 0·29	— 0·001	0·00	...	...	...	...	...	...	...	...
2259	88·36	11	— 25 28 53·49	53·62	+ 1·851	+ 0·54	— 0·183	—0·30	...	467	2440	3565	821	10049	1293	936*
2260	88·96	6	+ 3 40 54·50	54·30	+ 1·954	+ 0·43	...	...	...	...	...	...	...	...	...	...
2261*	87·63	3	— 36 34 30·00	30·22	+ 1·974	+ 0·59	...	...	...	...	...	...	...	...	...	...
2262†	93·01	4	— 33 3 40·26	40·30	+ 2·085	+ 0·57	— 0·07*	+0·21	...	...	2447	3584	825	10081	...	*927*
2263	88·97	6	+ 23 47 36·26	35·96	+ 2·186	+ 0·36	...	...	...	...	...	...	...	...	...	...
2264	89·18	13	— 42 23 26·71	26·78	+ 2·240	+ 0·62	— 0·030	—0·02	...	471	2448	3594	828	10092	...	941
2265	93·63	3	— 36 27 37·98	38·24	+ 2·314	+ 0·58	...	...	...	...	...	...	...	...	...	...
2266	91·69	3	— 24 6 48·63	48·56	+ 2·371	+ 0·53	+ 0·004	—0·01	...	...	...	3608	831	10107	...	...
2267*	87·50	10	— 8 19 12·24	12·46	+ 2·550	+ 0·47	— 0·307	—0·77	...	...	...	3617	...	...	1297	...
2268	90·62	6	+ 40 4 27·07	26·69	+ 2·587	+ 0·28	...	...	...	...	...	...	...	...	...	...
2269*	87·63	4	— 36 46 50·53	50·75	+ 2·605	+ 0·59	...	...	...	...	...	...	...	...	...	...
2270	87·74	14	— 71 31 14·31	14·34	+ 2·633	+ 1·02	— 0·169	—0·38	295	472	2455	3611	832	10122	1298	944
2271	90·30	6	+ 46 7 59·05	58·32	+ 2·677	+ 0·25	...	...	...	...	...	...	...	...	...	...
2272	93·62	3	— 31 26 53·34	53·63	+ 2·746	+ 0·56	...	...	...	...	...	...	...	...	...	...
2273*	87·64	5	— 23 35 51·75	52·01	+ 2·775	+ 0·53	— 0·022	—0·05	...	...	2462	3632	835	10145	1299	*932*
2274	89·15	6	+ 16 6 16·10	15·88	+ 2·810	+ 0·39	...	...	...	...	...	...	...	...	...	...
2275	90·15	6	+ 33 22 36·58	36·29	+ 2·842	+ 0·32	...	...	...	...	...	...	...	...	...	...

2261, 2269. Magnitude from *Cordoba Durchmusterung*.
2262. $5^m{\cdot}5$, $11^m{\cdot}3$ 3″ 201°. Brighter star observed.

No.	Bradley or Lacaille.	Piazzi. 1800.	B.A.C. 1850.	C.G.A. 1875.	Star's Name.	Mag.	Mean Date. 1800+	No. of Obs.	Mean R.A. 1890·0.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_a.	Corr. for μ_a to 1890·0.
									h m s	s	s	s	s
2276	...	...	...	...	C.P.D. — 36° No. 8409 ..	9·9‡	93·62	3	18 32 36·390	+ 4·0470	— 0·005	...	...
2277	...	...	...	...	C.P.D. — 36° No. 8412 ..	8·3‡	93·65	3	18 32 46·560	+ 4·0556	— 0·006	...	...
2278	7800	...	...	25467	Lacaille 7800	6·9*	91·69	3	18 33 10·810	+ 4·5515	— 0·010	...	...
2279	2341	143	6355	...	3 Lyræ .....α	0·2	86·50	2	18 33 12·650	+ 2·0134	— 0·002	+0·0173	+ 0·061
2280	7612	...	...	25412	Lacaille 7612	7·6	92·67	12	18 33 46·833	+15·797	— 0·397	...	...
2281	...	...	...	...	Lalande 34590.....	6·7†	89·14	6	18 34 11·985	+ 2·9530	0·000	...	...
2282	...	...	...	...	C.P.D. — 26° No. 6530..	8·2‡	87·66	5	18 34 58·690	+ 3·7284	— 0·004	...	...
2283	...	...	...	25523	C.G.A. 25523.....	8¼*	93·63	3	18 35 10·280	+ 4·0065	— 0·006	...	...
2284†	7771	...	6353	25527	Lacaille7771(as one mass)	6·2	92·43	11	18 36 11·304	+ 7·4206	— 0·061	—0·009	+ 0·022
2285†	7827	142	6359	25548	Coronæ Australis.....λ	5·2	90·80	12	18 36 14·122	+ 4·1199	— 0·007	—0·0029	+ 0·002
2286	2342	149	6361	25551	Scuti 4 H.....	4·8	91·69	3	18 36 14·990	+ 3·2853	— 0·001	—0·0004	+ 0·001
2287	...	160	6365	...	Piazzi XVIII. 160	7·2†	87·63	2	18 36 28·440	+ 2·0314	+ 0·001	...	...
2288	7830	146	6362	25565	Lacaille 7830	4·9	93·63	3	18 36 57·260	+ 4·0224	— 0·006	...	...
2289	...	...	...	...	C.Z. XVIII. 2104.....	8½*	94·68	3	18 37 31·290	+ 3·8811	— 0·005	...	...
2290	7842	155	6369	25600	Lacaille 7842	5·7	91·69	3	18 38 3·750	+ 3·6907	— 0·004	—0·0011†	+ 0·002
2291	...	...	...	...	Lalande 34690.....	8·2†	90·63	1	18 38 4·480	+ 3·5808	— 0·003	...	...
2292	...	...	...	25615	Lalande 34717.....	6·7*	89·14	6	18 38 44·665	+ 3·5813	— 0·003	...	...
2293	2344*	159	6371	25614	27 Sagittarii .....ϕ	3·3	89·97	12	18 38 47·008	+ 3·7469	— 0·004	+0·0014	0·000
2294	...	...	...	...	C.P.D.—32° No. 5535...	9·3‡	93·64	3	18 38 50·080	+ 3·9057	— 0·006	...	...
2295	...	...	...	25650	C.G.A. 25650	8¼*	93·63	3	18 40 4·250	+ 3·8906	— 0·006	...	...
2296	...	...	...	...	C.P.D.—32° No. 5554...	7·7‡	93·66	3	18 40 28·040	+ 3·9168	— 0·006	...	...
2297	2355	183	6390	...	4 Lyræ .....ϵ	*	87·50	6	18 40 41·682	+ 1·9857	+ 0·001	—0·0022	— 0·006
2298	2356	184	6391	...	5 Lyræ.....	*	...	...	18 40 44	+ 1·9879	+ 0·001	—0·0005	...
2299	2349	176	6384	25676	5 Aquilæ.....	6·0	89·83	6	18 40 47·793	+ 3·0972	0·000	—0·0005	0·000
2300†	7852	166	6381	25666	Coronæ Australis.....η'	5·7	90·73	9	18 40 54·092	+ 4·3341	— 0·010	—0·0009	+ 0·001
2301	2351	181	6387	...	110 Herculis	4·3	90·73	11	18 40 55·647	+ 2·5821	+ 0·001	—0·0030	+ 0·002
2302†	7841	...	6383	25692	Pavonis .....λ	4·4	88·21	5	18 42 1·380	+ 5·5774	— 0·029	—0·0069	— 0·012
2303	2354	192	6397	...	111 Herculis	4·5	91·71	11	18 42 9·764	+ 2·6439	+ 0·001	+0·0033	— 0·006
2304	6295	...	5959	25049	Octantis.....σ	5·5	90·68	69	18 42 21·471	+105·77	—29·129	+0·084†	— 0·057
2305*	2353	196	6407	25767	30 Sagittarii.....	6·1	87·71	1	18 44 13·680	+ 3·6103	— 0·004	—0·0053	— 0·012
2306	7872	...	...	25758	Lacaille 7872	5·4	90·30	6	18 44 16·433	+ 4·4659	— 0·013	...	...
2307	...	...	...	...	C.Z. XVIII. 2438	9¼*	87·64	4	18 44 22·890	+ 3·7165	— 0·005	...	...
2308	...	...	6421	...	Lalande35119(as one mass)	7·0†	...	...	18 44 38	+ 1·5470	0·000	...	...
2309†	7856	...	6405	25786	Pavonis .....κ	Var.	90·73	11	18 45 36·241	+ 6·2161	— 0·045	—0·010	+ 0·007
2310	2369	215	6429	...	10 Lyræ .....*pr.* β	Var.	90·60	10	18 46 1·096	+ 2·2141	+ 0·001	—0·0007	0·000

2286. 2 Aquilæ in B.A.C.
2305. Fundamental star for Southern Zones.

2298. ϵ^2 Lyræ in B.A.C.

No.	Mean Date. 1800+	No. of Obs.	Mean Dec. 1890·0.	Sec. of Final Dec.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_δ.	Corr. for μ_δ to 1890·0.	Fallows and Henderson.	Johnson.	Cape Catalogues. 1840.	1850.	1860.	1880.	1885.	Melbourne, 1870 and 1880.
			° ′ ″	″	″	″	″	″								
2276*	93·62	3	— 36 21 58·53	58·79	+ 2·843	+ 0·58	...	...	...	...	...	...	...	...	...	...
2277*	93·66	3	— 36 36 36·20	36·42	+ 2·858	+ 0·58	...	...	...	...	...	...	...	...	...	...
2278	91·69	3	— 48 11 26·44	26·31	+ 2·893	+ 0·66	...	...	...	...	...	...	...	10157	...	...
2279	90·09	11	+ 38 40 54·09	53·69	+ 2·896	+ 0·29	+ 0·295	—0·03	*166*	...	2468	3642	837	10163	1302	947*
2280	92·92	12	— 84 4 1·21	1·26	+ 2·945	+ 2·28	...	...	...	...	...	...	...	10143	...	945*
2281	89·14	6	+ 5 9 57·41	57·21	+ 2·981	+ 0·42	...	...	...	...	...	...	...	...	...	...
2282*	87·66	5	— 26 23 51·95	52·20	+ 3·049	+ 0·54	...	...	...	...	...	...	...	...	...	...
2283	93·63	3	— 35 15 27·47	27·74	+ 3·065	+ 0·58	...	...	...	...	...	...	...	...	...	...
2284†	92·43	11	— 73 6 34·65	34·71	+ 3·153	+ 1·07	+ 0·01	—0·02	...	...	2466	3640	...	10177	...	...
2285	90·80	12	— 38 25 41·83	41·82	+ 3·157	+ 0·59	— 0·053	+0·04	...	...	2470	3645	...	10180	...	949
2286*	91·69	3	— 9 9 25·39	25·36	+ 3·159	+ 0·47	+ 0·005	—0·01	297	474	...	3647	840	10181	...	...
2287	89·62	6	+ 38 15 55·03	54·50	+ 3·177	+ 0·29	...	...	...	...	...	...	...	...	...	...
2288	93·63	3	— 35 44 56·79	57·05	+ 3·219	+ 0·58	...	...	...	...	...	3648	...	10183	...	*934*
2289	94·68	3	— 31 30 34·28	34·50	+ 3·269	+ 0·56	...	...	...	...	...	...	...	...	...	...
2290*	91·69	3	— 25 7 13·92	13·86	+ 3·316	+ 0·53	— 0·030†	+0·05	...	...	2473	3652	...	10197	...	...
2291	90·63	1	— 21 4 54·36	54·33	+ 3·316	+ 0·51	...	...	...	...	...	...	...	...	...	...
2292	89·14	6	— 21 6 44·97	45·08	+ 3·374	+ 0·51	...	...	...	...	...	...	...	...	...	...
2293	89·97	12	— 27 6 11·29	11·33	+ 3·377	+ 0·54	— 0·019	0·00	298	475	2474	3654	843	10204	1309	951*
2294*	93·64	3	— 32 18 26·04	26·30	+ 3·382	+ 0·56	...	...	...	...	...	...	...	...	...	...
2295	93·63	3	— 31 51 22·42	22·69	+ 3·488	+ 0·56	...	...	...	...	...	...	...	...	...	...
2296*	93·66	3	— 32 40 45·24	45·47	+ 3·522	+ 0·56	...	...	...	...	...	...	...	...	...	...
2297†	89·72	12	+ 39 33 20·03	19·51	+ 3·542	+ 0·28	+ 0·064	+0·02	...	...	...	...	...	...	...	...
2298†	94·33	1	+ 39 29 53·88	53·31	+ 3·544	+ 0·28	+ 0·074	—0·32	...	...	...	...	...	...	...	...
2299	89·83	6	— 1 4 37·44	37·54	+ 3·551	+ 0·44	— 0·033	—0·01	...	...	...	3664	...	...	...	...
2300	90·73	9	— 43 47 55·05	55·10	+ 3·560	+ 0·62	— 0·004	0·00	...	...	2476	3660	...	10219	...	...
2301	90·33	12	+ 20 26 29·28	28·99	+ 3·562	+ 0·37	— 0·348	+0·11	...	...	...	...	...	...	1310	...
2302	88·21	5	— 62 18 43·83	43·89	+ 3·656	+ 0·80	— 0·055	—0·10	...	476	2477	3663	845	10227	1312	952
2303	91·25	13	+ 18 3 34·46	34·23	+ 3·669	+ 0·38	+ 0·118	—0·15	...	...	...	...	...	...	...	...
2304*	89·69	140	— 89 16 0·90	0·85	+ 3·685	+15·16	— 0·006†	0·00	275*	423	2302	3348	784	10085	1304	922*
2305*	87·71	1	— 22 17 14·30	14·56	+ 3·846	+ 0·52	— 0·013	—0·03	...	...	...	3678	...	...	1314	*940*
2306	90·30	6	— 46 43 24·42	24·36	+ 3·850	+ 0·64	...	...	...	...	...	...	847	10250	...	...
2307	87·64	4	— 26 8 42·57	42·83	+ 3·859	+ 0·53	...	...	...	...	...	...	...	...	...	...
2308†	91·69	5	+ 49 18 38·60	37·69	+ 3·881	+ 0·22	...	...	...	...	...	...	...	...	...	...
2309*	90·73	11	— 67 22 11·82	11·76	+ 3·964	+ 0·89	+ 0·013	—0·01	...	...	2482	3676	848	10258	...	955
2310*	90·60	10	+ 33 14 7·08	6·72	+ 3·999	+ 0·32	+ 0·017	—0·01	*164*	...	2487	...	852	10270	1315	957*

2276, 2277, 2282, 2294, 2296. Magnitude from *Cordoba Durchmusterung*.
2284. $6^m{\cdot}4$, $8^m{\cdot}4$ 1″·5 262°. Observed as one mass.
2290. Proper Motion from Newcomb's *Catalogue of* 1098 *Standard Stars*.
2297. 2298 $4^m{\cdot}6$, $4^m{\cdot}6$. No clear note by observers. Each star probably observed as one mass.
2304. Proper Motion determined for this Catalogue.
2308. $7^m{\cdot}1$, $9^m{\cdot}5$ 0″·4 4° 1891·48. Distance diminishing, angle increasing. Observed as one mass.
2309. Limits of magnitude, 4·0–5·5. Period $9^d{\cdot}102$.
2310. Limits of magnitude, 3·4–4·5. Period about $12^d.\ 22^h.$

No.	Bradley or Lacaille.	Piazzi. 1800.	B.A.C. 1850.	C.G.A. 1875.	Star's Name.	Mag.	Mean Date. 1800+	No. of Obs.	Mean R.A. 1890·0.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_α.	Corr. for μ_α to 1890·0.
									h m s	s	s	s	s
2311	7903	...	6422	25826	Lacaille 7903	7¾*	86·71	2	18 46 13·800	+ 3·7656	— 0·006	...	...
2312	7902	...	6424	25833	Lacaille 7902	7·1*	91·70	3	18 46 32·810	+ 3·8947	— 0·007	...	...
2313	2364*	211	6434	25853	32 Sagittarii .....ν^1	5·0	87·68	3	18 47 31·680	+ 3·6246	— 0·005	—0·0028	— 0·006
2314	2371	224	6438	...	112 Herculis	5·5	92·56	6	18 47 34·515	+ 2·5626	+ 0·001	—0·0018	+ 0·005
2315	7909	...	...	25870	Lacaille 7909	5·4	93·65	11	18 48 26·582	+ 4·2849	— 0·012	...	...
2316†	2365*	218	6440	25874	34 Sagittarii .....σ	2·3	89·67	9	18 48 26·637	+ 3·7223	— 0·005	—0·0016	— 0·001
2317	2366*	219	6441	25876	35 Sagittarii .....*pr.* ν^2	5·2	91·42	4	18 48 28·140	+ 3·6221	— 0·005	+0·0050	— 0·007
2318	...	...	...	...	C.Z. XVIII. 2633	9½*	87·66	2	18 48 43·480	+ 4·0578	— 0·009	...	...
2319	7880	...	6430	25869	Lacaille 7880	6·5*	94·69	6	18 48 53·014	+ 6·1205	— 0·046	...	...
2320	...	...	...	...	C.P.D. — 26° No. 6591	9·0‡	87·65	3	18 48 59·870	+ 3·7118	— 0·006	...	...
2321†	7910	...	6443	25897	Telescopii .....λ	4·9	93·37	10	18 49 39·694	+ 4·8102	— 0·020	—0·002	+ 0·007
2322*	2376	236	6460	...	63 Serpentis .....θ	4·0†	89·26	38	18 50 45·061	+ 2·9799	0·000	+0·0010	+ 0·001
2323†	2373	233	6461	25927	37 Sagittarii .....ξ	3·5	87·35	6	18 51 10·022	+ 3·5795	— 0·004	+0·0006	+ 0·002
2324†	7931	230	6458	25928	Coronæ Australis .....ϵ	4·9	92·34	11	18 51 18·116	+ 4·0637	— 0·009	—0·0154	+ 0·036
2325	7943	...	6465	25941	Lacaille 7943	6·8	93·27	12	18 51 35·853	+ 3·6808	— 0·006	...	...
2326	...	254	6476	...	Piazzi XVIII. 254 ...*pr.*	5·9	...	...	18 51 53	+ 1·5884	0·000	...	...
2327	7956	...	6479	25986	Lacaille 7956	6·4	91·70	3	18 53 39·720	+ 3·6815	— 0·006	...	...
2328	2390	262	6487	...	13 Aquilæ.....ϵ	4·1	87·11	9	18 54 37·794	+ 2·7264	0·000	—0·0049	— 0·014
2329	2392	266	6491	...	14 Lyræ .....γ	3·3	90·00	12	18 54 49·690	+ 2·2439	+ 0·001	—0·0018	0·000
2330†	2384*	257	6489	26041	38 Sagittarii(as one mass)ζ	2·7	89·75	12	18 55 36·749	+ 3·8228	— 0·008	—0·0039	— 0·001
2331	7957	...	...	26037	Lacaille 7957	7½*	94·03	6	18 55 43·251	+ 4·4497	— 0·016	...	...
2332	7962	...	...	26044	Lacaille 7962	5·8	87·45	5	18 55 47·099	+ 4·1013	— 0·012	...	...
2333	2391	265	6492	26048	12 Aquilæ.....	4·0	90·44	13	18 55 48·329	+ 3·2064	— 0·002	—0·0048	+ 0·002
2334	7884	...	...	26023	Lacaille 7884	7*	92·91	11	18 56 29·352	+ 9·1902	— 0·175	...	...
2335	7976	267	6499	26084	Lacaille 7976	5·7	91·70	3	18 57 21·170	+ 3·8571	— 0·008	...	...
2336	7751	...	...	25992	Lacaille 7751	7·9	91·98	23	18 57 31·817	+17·612	— 0·879	...	...
2337†	7963	...	6498	26085	Telescopii ..... ρ	5·0	90·23	12	18 57 37·294	+ 4·7601	— 0·022	—0·0030	+ 0·001
2338	2393	278	6507	26102	39 Sagittarii .....o	3·9	89·16	6	18 58 5·457	+ 3·5928	— 0·006	+0·0029	+ 0·002
2339	7973	...	6506	26110	Lacaille 7973	6·4*	94·55	12	18 58 38·032	+ 4·5326	— 0·019	...	...
2340	...	...	...	...	Lalande 35655.....	6·8†	90·16	6	18 58 40·268	+ 2·6741	— 0·001	...	...
2341	...	295	...	26143	Piazzi XVIII. 295	8*	91·16	6	18 59 35·025	+ 3·0973	— 0·001	...	...
2342†	2397*	292	6521	26149	40 Sagittarii .....τ	3·5	92·51	9	19 0 4·311	+ 3·7541	— 0·007	—0·0068	+ 0·017
2343	2405	303	6528	...	17 Aquilæ .....ζ	3·1	89·44	9	19 0 21·247	+ 2·7578	0·000	—0·0026	— 0·001
2344*	2401	298	6526	26159	16 Aquilæ .....λ	3·6	89·93	45	19 0 24·676	+ 3·1865	— 0·002	—0·0038	0·000
2345	2402	...	6536	26187	Bradley 2402	5·5	94·58	12	19 1 48·890	+ 3·5278	— 0·005	—0·0018	+ 0·008

2323. ξ^2 Sagittarii in B.A.C. and C.G.A.

No.	Mean Date. 1800+	No. of Obs.	Mean Dec. 1890·0.	Sec. of Final Dec.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_δ.	Corr. for μ_δ to 1890·0.	Fallows and Henderson.	Johnson.	Cape Catalogues. 1840.	1850.	1860.	1880.	1885.	Melbourne, 1879 and 1880.
			° ′ ″	″	″	″	″	″								
2311	86·71	2	− 27 53 19·88	20·08	+ 4·018	+ 0·54	...	...	...	...	...	3691	...	10268	1316	...
2312	91·70	3	− 32 7 28·51	28·41	+ 4·045	+ 0·55	...	...	...	...	...	3692	...	10275	...	...
2313	87·42	4	− 22 52 45·43	45·69	+ 4·129	+ 0·52	− 0·019	−0·05	...	477	2489	3697	...	10278	1317	...
2314	92·56	6	+ 21 17 35·32	35·07	+ 4·133	+ 0·36	− 0·006	+0·02	...	...	...	...	...	...	...	...
2315	93·65	11	− 42 50 54·82	54·98	+ 4·207	+ 0·61	...	...	...	...	...	...	...	10283	...	...
2316	89·67	9	− 26 25 57·59	57·60	+ 4·207	+ 0·53	− 0·067	−0·02	300*	478	2491	3703	853	10284	1319	960*
2317†	91·42	4	− 22 48 28·67	28·60	+ 4·209	+ 0·51	− 0·010	+0·01	...	479	2492	3704	...	10287	...	...
2318	87·66	3	− 37 0 52·32	52·54	+ 4·231	+ 0·58	...	...	...	...	...	...	...	...	...	...
2319	94·69	6	− 66 47 47·36	47·48	+ 4·245	+ 0·87	...	...	...	...	...	3694	...	10286	...	...
2320*	87·65	3	− 26 4 26·21	26·46	+ 4·255	+ 0·53	...	...	...	...	...	...	...	...	...	...
2321	93·37	10	− 53 4 53·39	53·46	+ 4·312	+ 0·68	+ 0·01	−0·03	...	...	2493	3706	856	10296	...	...
2322	89·12	109	+ 4 3 39·30	39·17	+ 4·404	+ 0·42	+ 0·042	+0·04	...	...	...	...	...	10303	1321	*945*
2323*	87·35	6	− 21 15 1·52	1·71	+ 4·440	+ 0·51	− 0·015	−0·04	...	480	...	3718	859	10308	1322	...
2324	92·43	10	− 37 14 59·74	59·77	+ 4·451	+ 0·58	− 0·102	+0·25	...	...	2497	3716	...	10309	...	961
2325	93·27	12	− 25 1 20·32	20·46	+ 4·477	+ 0·52	...	...	...	...	...	3720	...	10315	...	...
2326†	93·84	5	+ 48 43 21·69	20·61	+ 4·501	+ 0·22	...	...	...	...	...	...	...	...	...	...
2327	91·70	3	− 25 5 39·50	39·43	+ 4·653	+ 0·52	...	...	...	...	...	3724	...	10328	...	...
2328	86·92	12	+ 14 55 10·51	10·22	+ 4·735	+ 0·38	− 0·080	−0·25	...	...	...	...	...	10337	1324	*947*
2329	90·00	12	+ 32 32 19·69	19·46	+ 4·752	+ 0·32	+ 0·005	0·00	...	...	...	...	...	...	1325	...
2330†	89·75	12	− 30 2 11·69	11·68	+ 4·819	+ 0·54	+ 0·008	0·00	301	481	2503	3730	861	10349	1327	963*
2331	94·03	6	− 46 42 23·02	23·12	+ 4·827	+ 0·63	...	...	...	...	...	...	...	10350	...	...
2332	87·45	5	− 38 24 39·07	39·30	+ 4·833	+ 0·58	...	...	...	...	...	...	...	10351	...	...
2333	90·44	13	− 5 53 36·06	36·12	+ 4·835	+ 0·45	− 0·018	+0·01	...	...	...	3732	...	...	1328	...
2334	92·41	12	− 78 2 7·00	6·97	+ 4·892	+ 1·30	...	...	...	...	...	...	...	10348	...	...
2335	91·70	3	− 31 12 26·53	26·44	+ 4·966	+ 0·54	...	...	...	...	2508	3735	...	10357	...	...
2336	89·02	66	− 84 54 36·96	37·00	+ 4·981	+ 2·49	...	...	...	...	...	...	...	10343	1329	*948*
2337	90·23	12	− 52 30 3·93	3·89	+ 4·988	+ 0·67	− 0·115	+0·03	...	...	2507	3734	...	10358	...	...
2338	89·16	6	− 21 54 6·79	6·82	+ 5·029	+ 0·50	− 0·057	−0·05	...	482	2509	3742	...	10365	1330	...
2339	94·55	12	− 48 27 52·01	52·16	+ 5·074	+ 0·64	...	...	...	...	...	3741	864	10369	...	...
2340	90·16	6	+ 17 7 13·73	13·58	+ 5·077	+ 0·38	...	...	...	...	...	...	...	...	...	...
2341	91·16	6	− 1 6 1·65	1·67	+ 5·155	+ 0·43	...	...	...	...	...	...	...	...	...	...
2342	92·03	10	− 27 49 50·10	50·19	+ 5·196	+ 0·53	− 0·252	+0·51	302	484	2511	3752	867	10381	...	968
2343	88·90	10	+ 13 42 0·89	0·70	+ 5·220	+ 0·39	− 0·089	−0·10	*143*	...	2515	3757	869	10385	1332	970*
2344	88·92	99	− 5 2 48·94	49·06	+ 5·225	+ 0·45	− 0·080	−0·09	303*	486	...	3756	...	10384	1333	*952*
2345	94·58	12	− 19 27 42·16	42·40	+ 5·343	+ 0·49	+ 0·01	−0·05	...	...	...	3763	...	...	...	...

2317. $5^m·2$, $10^m·7$ 1″·4 104° 1888·7. Fainter star not seen.
2320. Magnitude from *Cordoba Durchmusterung*.
2326. $5^m·9$, $12^m·6$ 1″·6 88° 1891·58. Fainter star not seen.
2330. Very close binary; $3^m·2$, $3^m·7$. Observed as one mass.

No.	Bradley or Lacaille.	Piazzi. 1800.	B.A.C. 1850.	C.G.A. 1875.	Star's Name.	Mag.	Mean Date. 1800+	No. of Obs.	Mean R.A. 1890·0.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_a.	Corr. for μ_a to 1890·0.
									h m s	s	s	s	s
2346†	8002	300	6535	26189	Coronæ Australis.....*a*	4·2	91·28	11	19 1 59·265	+ 4·0817	— 0·012	+0·0041	— 0·005
2347	7999	...	...	26198	Lacaille 7999	5·9	90·49	7	19 2 12·701	+ 4·2348	— 0·015	...	...
2348*	2406	315	6548	26225	41 Sagittarii .....π	3·1	88·19	16	19 3 13·323	+ 3·5714	— 0·006	—0·0020	— 0·004
2349	2413	327	6553	...	17 Lyræ .....*seq.*	4·9	90·68	8	19 3 15·990	+ 2·2585	+ 0·001	+0·0082	— 0·006
2350	...	...	...	...	W.B. (2) XIX. 17	6·2	90·64	6	19 3 20·940	+ 2·5653	+ 0·001	...	...
2351	2414	2	6556	...	18 Lyræ .....*t*	5·2	93·50	8	19 3 22·520	+ 2·1406	+ 0·001	—0·0007	+ 0·002
2352	...	...	...	...	Lalande 35894.....	7·2†	89·66	6	19 4 9·057	+ 2·8444	0·000	...	...
2353	...	...	...	...	Gilliss P.Z. 13504	8·9‡	91·46	2	19 5 35·130	+41·321	— 6·531	...	...
2354†	7997	...	6558	26287	Lacaille7997(as one mass)	5·6	88·48	11	19 6 8·086	+ 6·0699	— 0·062	—0·004	— 0·006
2355	8033	7	6562	26309	Lacaille 8033	6·3*	91·69	3	19 6 27·100	+ 3·6998	— 0·008	—0·004	+ 0·007
2356†	8029	1	...	26311	Lacaille 8029	5·9	89·17	12	19 6 39·391	+ 4·3703	— 0·018	+0·0034	+ 0·003
2357*	2415	16	6564	26317	20 Aquilæ.....	5·8‡	89·55	57	19 6 42·700	+ 3·2553	— 0·003	—0·0004	0·000
2358	8040	...	6568	26337	Lacaille 8040	6·9	94·61	3	19 7 37·531	+ 3·8115	— 0·009	...	...
2359	...	29	...	...	Piazzi XIX. 29	7·2†	89·14	6	19 8 50·765	+ 2·9026	— 0·001	...	...
2360	...	...	...	...	Lalande 36147.....	7·0†	89·82	6	19 9 21·177	+ 2·9415	— 0·001	...	...
2361	8055	...	6578	26388	Lacaille 8055	7½*	90·16	6	19 9 25·840	+ 3·6909	— 0·008	...	...
2362	...	...	...	...	W.B. (2) XIX. 251.....	6·1	91·70	15	19 10 15·710	+ 2·6083	+ 0·001	...	...
2363	2424	41	6585	...	22 Aquilæ.....	5·4	90·38	11	19 11 4·355	+ 2·9691	— 0·001	—0·0004	0·000
2364*	2423	35	6584	26414	43 Sagittarii .....*d*	4·9	87·00	3	19 11 11·960	+ 3·5145	— 0·006	—0·0024	— 0·007
2365	...	...	...	26429	Brisbane 6622	8½*	88·66	2	19 12 14·161	+ 4·9691	— 0·033	...	...
2366	...	...	...	...	C.Z. XIX. 504	8½*	94·70	3	19 12 31·081	+ 3·7831	— 0·010	...	...
2367	2438	65	6599	...	21 Lyræ .....θ	4·3	87·00	1	19 12 32·790	+ 2·0821	+ 0·001	—0·0042	— 0·013
2368	2432	57	6595	...	25 Aquilæ .....ω	5·1	88·59	37	19 12 39·180	+ 2·8164	0·000	—0·0014	— 0·002
2369	2430	56	6597	...	23 Aquilæ .....*pr.*	5·4	90·18	6	19 12 56·682	+ 3·0529	— 0·002	—0·0016	0·000
2370	...	...	...	26415	Brisbane 6598	6·7	88·61	8	19 13 21·569	+12·071	— 0·463	...	...
2371	8020	...	...	26454	Lacaille 8020	7½*	94·64	5	19 14 5·662	+ 7·9345	— 0·155	...	...
2372	2435	66	6614	26492	26 Aquilæ .....*f*	5·3‡	89·55	57	19 14 40·550	+ 3·1971	— 0·003	+0·0059	+ 0·003
2373	...	...	...	26491	C.G.A. 26491	8*	94·66	3	19 14 43·371	+ 3·7582	— 0·010	...	...
2374	8075	54	6608	26485	Sagittarii .....β^1	4*	89·00	6	19 14 43·683	+ 4·3242	— 0·020	—0·003*	— 0·003
2375	2439	72	6618	26497	27 Aquilæ .....*d*	5·6	89·85	6	19 14 55·122	+ 3·0967	— 0·002	—0·0015	0·000
2376	8079	62	6610	26500	Sagittarii..... β^2	4·4	91·00	6	19 15 16·143	+ 4·3382	— 0·020	+0·004*	— 0·004
2377	...	...	6624	...	Lalande 36503.....	6·6†	...	...	19 15 17	+ 2·0047	+ 0·001	...	...
2378	2434	69	6619	26508	44 Sagittarii .....ρ	3·9	89·15	8	19 15 17·540	+ 3·4849	— 0·006	—0·0033	— 0·003
2379†	8087	68	6622	26527	Sagittarii .....*a*	4·1	90·40	11	19 16 15·820	+ 4·1640	— 0·017	+0·0016	— 0·001
2380	...	...	...	26540	Lalande 36511.....	7·0*	90·80	6	19 16 22·518	+ 3·2592	— 0·004	...	...

2348. Fundamental star for Southern Zones.

2378. ρ^1 Sagittarii in B.A.C.

No.	Mean Date. 1800+	No. of Obs.	Mean Dec. 1890·0.	Sec. of Final Dec.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_δ.	Corr. for μ_δ to 1890·0.	Fallows and Henderson	Johnson.	Cape Catalogues. 1840.	1850.	1860.	1880.	1885.	Melbourne, 1870 and 1880.
			° ′ ″	″	″	″	″	″								
2346	91·28	11	− 38 4 29·68	29·65	+ 5·358	+ 0·57	− 0·120	+0·15	...	487	2516	3762	871	10398	...	971
2347	90·49	7	− 42 3 58·19	58·17	+ 5·377	+ 0·59	...	...	...	...	...	...	...	10404	...	...
2348*	88·18	17	− 21 11 51·19	51·33	+ 5·461	+ 0·50	− 0·031	−0·06	304	489	2520	3773	873	10411	1337	*954*
2349†	90·68	8	+ 32 19 42·54	42·31	+ 5·466	+ 0·32	+ 0·041	−0·03	...	...	...	...	...	...	...	...
2350	90·64	6	+ 21 31 24·09	23·96	+ 5·473	+ 0·36	...	...	...	...	...	...	...	...	...	...
2351	93·76	7	+ 35 55 41·02	40·54	+ 5·475	+ 0·30	+ 0·009	−0·03	...	...	...	...	...	...	...	...
2352	89·66	6	+ 10 3 54·00	53·85	+ 5·540	+ 0·40	...	...	...	...	...	...	...	...	...	...
2353*	91·46	2	− 88 4 46·44	46·49	+ 5·660	+ 5·78	...	...	...	...	...	...	...	...	...	...
2354†	88·74	11	− 66 50 57·75	57·77	+ 5·707	+ 0·85	+ 0·01	+0·01	...	...	2521	3778	...	10426	...	...
2355	91·69	3	− 26 5 25·22	25·15	+ 5·733	+ 0·51	− 0·01	+0·02	...	...	...	3782	...	10430	...	...
2356	89·17	12	− 45 22 41·70	41·74	+ 5·750	+ 0·61	− 0·042	−0·03	...	...	...	...	...	10432	...	...
2357*	89·55	57	− 8 7 22·06	22·11	+ 5·755	+ 0·45	− 0·005	0·00	305	490	...	3783	...	10433	1340	*955*
2358	94·61	3	− 30 1 5·20	5·41	+ 5·832	+ 0·53	...	...	...	...	...	3785	...	10436	...	...
2359	89·14	6	+ 7 34 33·28	33·10	+ 5·934	+ 0·40	...	...	...	...	...	...	...	...	...	...
2360	89·82	6	+ 5 51 33·10	32·97	+ 5·976	+ 0·41	...	...	...	...	...	...	...	...	...	...
2361	90·66	5	− 25 51 25·84	25·79	+ 5·983	+ 0·51	...	...	...	...	...	3792	...	10454	...	...
2362	91·70	15	+ 20 0 43·75	43·67	+ 6·052	+ 0·36	...	...	...	...	...	...	...	...	...	...
2363	90·19	13	+ 4 38 28·16	28·08	+ 6·119	+ 0·41	− 0·001	0·00	...	...	...	...	...	...	...	...
2364	87·00	3	− 19 8 52·34	52·62	+ 6·130	+ 0·48	− 0·004	−0·01	...	491	...	3794	...	10458	1341	*957*
2365	88·66	2	− 56 10 16·30	16·36	+ 6·216	+ 0·69	...	...	...	...	...	...	...	...	...	...
2366	94·70	3	− 29 13 12·95	13·19	+ 6·240	+ 0·52	...	...	...	...	...	...	...	...	...	...
2367	92·58	12	+ 37 56 17·88	17·35	+ 6·243	+ 0·29	0·000	0·00	...	...	2529	...	...	...	...	...
2368	89·76	55	+ 11 23 50·91	50·69	+ 6·251	+ 0·39	+ 0·025	+0·01	...	...	...	...	876	10466	1342	980*
2369†	90·18	6	+ 0 53 8·48	8·42	+ 6·276	+ 0·42	+ 0·022	0·00	...	...	...	...	...	...	...	...
2370	88·61	8	− 81 58 23·93	23·87	+ 6·310	+ 1·67	...	...	...	...	...	...	...	10460	...	978*
2371	93·07	11	− 75 23 11·05	11·07	+ 6·371	+ 1·09	...	...	...	...	...	...	...	10472	...	...
2372*	89·55	57	− 5 37 14·52	14·58	+ 6·419	+ 0·44	+ 0·043	+0·02	...	...	...	3813	...	...	...	...
2373	94·66	3	− 28 25 53·63	53·85	+ 6·422	+ 0·52	...	...	...	...	...	...	...	...	...	...
2374	89·00	6	− 44 39 52·43	52·44	+ 6·424	+ 0·60	− 0·02*	−0·02	306	492	2530	3808	878	10486	1343	981
2375	89·85	6	− 1 5 46·60	46·70	+ 6·439	+ 0·42	− 0·004	0·00	...	...	...	3816	...	...	...	...
2376	91·00	6	− 45 0 20·94	20·86	+ 6·468	+ 0·60	− 0·09*	+0·09	...	...	2532	3811	879	10491	1344	982
2377	92·01	8	+ 40 9 28·29	27·90	+ 6·469	+ 0·28	...	...	...	...	...	...	...	...	...	...
2378*	89·15	8	− 18 3 12·86	12·96	+ 6·470	+ 0·48	+ 0·026	+0·02	308	493	...	3817	880	10493	1345	...
2379	90·40	11	− 40 49 19·37	19·37	+ 6·551	+ 0·57	− 0·121	+0·05	310	494	2536	3820	881	10498	1347	984
2380	90·80	6	− 8 24 30·79	30·79	+ 6·560	+ 0·45	...	...	...	...	...	...	...	...	...	...

2349. $4^m·9$, $9^m·1$ 3″·7 322° 1873·70. Angle diminishing. Brighter star observed.
2353. Magnitude from Cape observations.
2357, 2372. Magnitude and Proper Motion from *Cape Annals*, Vol. VII.

2354. $5^m·8$, $7^m·8$ 0″·± 40°±. Observed as one mass.
2369. $5^m·4$. $8^m·7$ 3″·0 11°. Brighter star observed.

No.	Bradley or Lacaille.	Piazzi. 1800.	B.A.C. 1850.	C.G.A. 1875.	Star's Name.	Mag.	Mean Date. 1800+	No. of Obs.	Mean R.A. 1890·0.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_α.	Corr. for μ_α to 1890·0.
									h m s	s	s	s	s
2381	...	...	...	...	C.P.D. — 25° No. 6791..	9·6‡	91·65	3	19 17 15·190	+ 3·6680	— 0·009	...	...
2382	...	...	...	...	C.P.D. — 54° No. 9362..	9·0‡	88·62	3	19 17 47·751	+ 4·8604	— 0·034	...	...
2383	2446*	96	6636	26601	49 Sagittarii	5·9	94·53	12	19 18 50·161	+ 3·6375	— 0·009	—0·0034	+ 0·015
2384†	8091	...	6632	26593	Lacaille 8091	5·4	89·25	12	19 18 57·860	+ 4·8394	— 0·033	—0·009	— 0·007
2385	8059	...	...	26589	Lacaille 8059	7½*	93·03	6	19 19 25·051	+ 7·3784	— 0·136	...	...
2386	2452	114	6644	...	31 Aquilæ ....*b*	5·3	89·75	8	19 19 43·491	+ 2·8120	0·000	+0·0487	+ 0·012
2387	8078	...	6630	26604	Lacaille 8078	6·5*	89·70	6	19 19 44·007	+ 6·2888	— 0·084	—0·004*	— 0·001
2388*	2451.	113	6646	...	30 Aquilæ .....*δ*	3·5	88·35	23	19 19 57·079	+ 3·0089	— 0·002	+0·0153	+ 0·025
2389†	8107	102	6639	26618	Lacaille 8107	5·8	93·35	10	19 19 59·341	+ 3·7966	— 0·011	—0·0008	+ 0·003
2390	...	...	...	...	B.D. + 44° No. 3122 ...	6·7†	...	...	19 20 41	+ 1·8299	0·000	...	...
2391	2459	123	6657	...	Bradley 2459	6·0	90·87	5	19 20 52·632	+ 2·4951	+ 0·001	—0·0150	+ 0·013
2392	...	...	...	26634	Brisbane 6661	8*	94·74	2	19 21 11·364	+ 5·1965	— 0·045	...	...
2393	2461	125	6661	...	5 Vulpeculæ	5·4	90·70	5	19 21 25·034	+ 2·6193	0·000	—0·0013	+ 0·001
2394	...	...	...	...	Lalande 36699.....	7·8‡	90·28	11	19 21 28·437	+ 3·2032	— 0·004	—0·0006	0·000
2395	8109	...	...	26648	Lacaille 8109	5·8	94·51	10	19 21 34·682	+ 4·2685	— 0·020	...	...
2396	8101	...	6649	26643	Lacaille 8101	6·7*	92·36	6	19 21 38·952	+ 4·8843	— 0·036	...	...
2397	...	...	...	26679	C.G.A. 26679	8¼*	94·62	2	19 23 1·061	+ 3·7277	— 0·010	...	...
2398	...	...	...	...	Lalande 36776.....	8·2‡	89·47	6	19 23 5·730	+ 3·2127	— 0·004	—0·0012	— 0·001
2399	...	...	...	26690	C.G.A. 26690	7¾*	94·68	3	19 23 12·501	+ 3·7251	— 0·010	...	...
2400	2463	135	6670	...	35 Aquilæ .....*e*	5·7	92·42	6	19 23 27·285	+ 3·0348	— 0·002	—0·0010	+ 0·002
2401	2467	148	6674	...	6 Vulpeculæ	4·7	89·00	6	19 24 7·617	+ 2·5053	+ 0·001	—0·0108	— 0·011
2402	...	...	...	...	W.B. XIX. 541	8·5‡	89·51	8	19 24 9·460	+ 3·1850	— 0·004	—0·0036	— 0·002
2403	8115	...	6669	26709	Lacaille 8115	6·0	88·62	4	19 24 12·561	+ 4·7535	— 0·033	...	...
2404	...	...	...	...	W.B. XIX. 575	8·4‡	90·12	15	19 25 21·189	+ 3·2013	— 0·004	—0·0004	0·000
2405	...	...	...	...	W.B. XIX. 590	8·3‡	89·52	11	19 25 43·530	+ 3·1890	— 0·004	—0·0038	— 0·002
2406	...	...	...	...	✳	9·7‡	88·68	3	19 26 15·961	+ 4·6753	— 0·032	...	...
2407	2473	161	6690	...	6 Cygni .....*β*	3·0†	90·33	9	19 26 17·077	+ 2·4190	+ 0·001	—0·0017	+ 0·001
2408†	8137	...	6689	26780	Telescopii .....*ι*	5·0	91·64	10	19 27 3·221	+ 4·4677	— 0·027	—0·006	+ 0·010
2409	...	...	...	...	Lalande 37014.....	7·0†	94·63	6	19 27 7·610	+ 2·2589	+ 0·001	..	...
2410	8134	...	...	26784	Lacaille 8134	7·2*	88·63	4	19 27 18·571	+ 4·7341	— 0·034	...	...
2411	...	...	...	...	W.B. (2) XIX. 787.....	6·6†	91·89	6	19 27 31·668	+ 2·4845	+ 0·001	...	...
2412	2480	173	6698	...	8 Cygni	4·8	93·64	6	19 27 40·967	+ 2·2290	+ 0·001	—0·0008	+ 0·003
2413	8114	...	...	26785	Lacaille 8114	7·3*	93·66	6	19 27 45·564	+ 6·4036	— 0·099	...	...
2414	...	...	...	...	Lalande 36990.....	7·5‡	89·52	11	19 27 53·710	+ 3·1805	— 0·004	—0·0012	— 0·001
2415	...	...	...	...	W.B. XIX. 670	8·5‡	89·53	8	19 28 40·860	+ 3·1740	— 0·004	+0·0010	0·000

2383. χ^2 Sagittarii in B.A.C. and C.G.A.
2401. a Vulpeculæ in B.A.C.

2396. μ Telescopii in B.A.C.
2408. B.A.C. assigns to Sagittarius.

No.	Mean Date. 1800+	No. of Obs.	Mean Dec. 1890·0.	Sec. of Final Dec.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_δ.	Corr. for μ_δ to 1890·0.	Fallows and Henderson.	Johnson.	Cape Catalogues. 1840.	1850.	1860.	1880.	1885.	Melbourne, 1870 and 1880.
			° ′ ″	″	″	″	″	″								
2381*	91·65	3	— 25 16 1·47	1·46	+ 6·632	+ 0·50	...	...	...	...	...	...	...	...	...	...
2382*	88·62	3	— 54 48 50·61	50·65	+ 6·677	+ 0·67	...	...	...	...	...	...	...	...	...	...
2383*	94·53	12	— 24 10 36·72	36·93	+ 6·763	+ 0·50	— 0·005	+0·02	...	...	...	3828	883	10517	...	...
2384†	89·25	12	— 54 32 36·99	36·99	+ 6·774	+ 0·66	+ 0·02	+0·02	...	...	...	3825	...	10515	...	...
2385	93·03	6	— 73 43 15·91	15·96	+ 6·811	+ 1·01	...	...	...	...	...	...	...	10516	...	...
2386	89·75	8	+ 11 42 33·73	33·62	+ 6·836	+ 0·38	+ 0·651	+0·16	...	...	...	...	...	...	...	...
2387	89·70	6	— 68 39 23·94	23·89	+ 6·837	+ 0·86	— 0·02*	—0·01	...	...	2538	3823	...	10518	...	987
2388	88·62	37	+ 2 53 45·24	45·03	+ 6·854	+ 0·41	+ 0·091	+0·13	311*	...	2543	3834	885	10522	1349	988*
2389	93·35	10	— 29 57 35·70	35·91	+ 6·857	+ 0·52	— 0·053	+0·18	...	...	2542	3830	884	10521	...	...
2390	93·97	4	+ 44 43 3·01	2·26	+ 6·913	+ 0·25	...	...	...	...	...	...	...	...	...	...
2391	90·87	5	+ 24 42 52·29	52·02	+ 6·931	+ 0·34	— 0·626	+0·54	...	...	...	...	...	...	...	...
2392	94·74	2	— 59 26 43·50	43·66	+ 6·956	+ 0·71	...	...	...	...	...	...	...	10527	...	...
2393	90·70	5	+ 19 52 47·20	46·94	+ 6·975	+ 0·36	— 0·021	+0·01	...	...	...	...	...	...	...	...
2394*	90·28	11	— 5 57 14·56	14·62	+ 6·979	+ 0·44	— 0·010	0·00	...	...	...	...	...	...	...	...
2395	94·51	10	— 43 39 53·83	53·98	+ 6·988	+ 0·58	...	...	...	...	...	...	...	10532	...	...
2396*	92·36	6	— 55 20 3·94	4·01	+ 6·994	+ 0·67	...	...	...	...	2544	3835	886	10531	...	...
2397	94·62	2	— 27 39 37·29	37·51	+ 7·106	+ 0·51	...	...	...	...	...	...	...	...	...	...
2398*	89·47	6	— 6 23 53·96	54·04	+ 7·113	+ 0·44	+ 0·003	0·00	...	...	...	...	...	...	...	...
2399	94·68	3	— 27 34 24·20	24·43	+ 7·121	+ 0·50	...	...	...	...	...	...	...	...	...	...
2400	92·42	6	+ 1 43 34·08	34·00	+ 7·141	+ 0·41	— 0·022	+0·05	...	...	...	...	...	...	...	...
2401*	89·00	6	+ 24 26 33·52	33·18	+ 7·197	+ 0·34	— 0·102	—0·10	...	...	...	...	...	10545	1352	...
2402*	89·51	8	— 5 8 58·98	59·04	+ 7·199	+ 0·43	+ 0·023	+0·01	...	...	...	...	...	...	...	...
2403	88·62	4	— 53 24 58·68	58·74	+ 7·203	+ 0·64	...	...	...	...	2548	3844	...	10543	...	...
2404*	90·12	15	— 5 54 5·91	5·94	+ 7·297	+ 0·43	— 0·008	0·00	...	...	...	...	...	...	...	...
2405*	89·51	10	— 5 20 55·59	55·67	+ 7·327	+ 0·43	— 0·062	—0·03	...	...	...	...	...	...	...	...
2406*	88·68	3	— 52 12 2·41	2·50	+ 7·371	+ 0·63	...	...	...	...	...	...	...	...	...	...
2407	90·33	9	+ 27 43 44·56	44·30	+ 7·373	+ 0·33	— 0·013	0·00	...	...	...	...	...	...	1354	...
2408*	91·64	10	— 48 20 6·90	7·03	+ 7·435	+ 0·60	— 0·03	+0·05	...	...	2552	3857	...	10563	...	*964*
2409	94·63	6	+ 33 14 19·64	19·13	+ 7·440	+ 0·30	...	...	...	...	...	...	...	...	...	...
2410	88·63	4	— 53 14 42·22	42·29	+ 7·456	+ 0·64	...	...	...	...	...	...	...	10564	...	...
2411	91·89	6	+ 25 21 40·22	39·96	+ 7·474	+ 0·33	...	...	...	...	...	...	...	...	...	...
2412	93·64	6	+ 34 13 10·40	9·98	+ 7·486	+ 0·30	+ 0·017	—0·06	...	...	...	...	...	...	...	...
2413	93·66	6	— 69 34 52·06	52·16	+ 7·492	+ 0·86	...	...	...	...	...	...	...	10565	...	...
2414*	89·52	11	— 4 58 42·00	42·07	+ 7·504	+ 0·43	+ 0·004	0·00	...	...	...	...	...	...	...	...
2415*	89·53	8	— 4 41 16·17	16·23	+ 7·567	+ 0·42	+ 0·015	+0·01	...	...	...	...	...	...	...	...

2381. Magnitude from *Cordoba Durchmusterung*.
2382, 2406. Magnitude from Cape observations.
2384. Binary; $5^m{\cdot}4$, $10^m{\cdot}1$. Fainter star not seen.
2394, 2398, 2402, 2404, 2405, 2414, 2415. Magnitude and Proper Motion from *Cape Annals*, Vol. VII.

No.	Bradley or Lacaille.	Piazzi. 1800.	B.A.C. 1850.	C.G.A. 1875.	Star's Name.	Mag.	Mean Date. 1800+	No. of Obs.	Mean R.A. 1890·0.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_a.	Corr. for μ_a to 1890·0.
									h m s	s	s	s	s
2416	...	...	...	...	Lalande 37055.....	7·8‡	89·53	7	19 29 23·950	+ 3·1709	— 0·004	—0·0005	0·000
2417	...	...	...	26831	Lalande 37048.....	6·7*	89·50	7	19 29 25·747	+ 3·3464	— 0·006	...	...
2418*	2478*	174	6706	26843	52 Sagittarii .....*pr.h.*	4·6	86·86	7	19 30 0·775	+ 3·6517	— 0·010	+0·0022	+ 0·007
2419	...	...	...	...	W.B. XIX. 715	8·0†	91·66	5	19 30 33·290	+ 3·2068	— 0·004	...	...
2420	...	...	...	...	Gilliss P.Z. 13991	8·8‡	91·46	2	19 30 37·003	+12·348	- 0·615	...	...
2421	...	...	...	...	B.D. — 5° No. 5021 ...	7·7‡	89·52	9	19 30 44·360	+ 3·1807	— 0·004	—0·003	— 0·001
2422	...	...	...	...	B.D. — 4° No. 4855 ...	7·9‡	89·58	10	19 30 56·600	+ 3·1705	— 0·004	+0·0024	+ 0·001
2423*	2482	187	6713	26865	39 Aquilæ .....*κ*	4·9	87·50	2	19 30 58·385	+ 3·2298	— 0·004	—0·0010	— 0·003
2424	...	...	6718	...	Lalande 37228.....	5·2	...	...	19 31 6	+ 1·9559	+ 0·001	...	...
2425	...	...	...	...	B.D. — 3° No. 4649.....	8·0‡	89·58	6	19 31 25·330	+ 3·1526	— 0·003	—0·001	0·000
2426	...	...	...	...	W.B. (2) XIX. 937	7·2†	91·70	15	19 31 49·210	+ 2·6223	0·000	...	...
2427	2485	196	6719	26887	42 Aquilæ	5·7‡	89·56	11	19 31 57·170	+ 3·1779	— 0·004	+0·0056	+ 0·002
2428	...	...	...	...	✳	9·5‡	88·64	3	19 32 16·411	+ 4·6589	— 0·034	...	...
2429	...	...	6728	...	W.B. (2) XIX. 1019 ...	6·9†	...	...	19 33 2	+ 1·9086	+ 0·001	...	...
2430	...	...	...	...	Lalande 37300.....	6·5†	...	...	19 33 4	+ 2·1082	+ 0·001	...	...
2431	2498	223	6734	...	13 Cygni .....*pr.θ*	4·7	...	...	19 33 29	+ 1·6117	— 0·002	—0·0033	...
2432	2490	214	6733	26949	54 Sagittarii	5·5*	89·77	6	19 34 25·250	+ 3·4364	— 0·007	+0·0026	+ 0·001
2433	...	...	...	26953	Lalande 37292.....	6·6‡	89·44	22	19 34 30·109	+ 3·1948	— 0·004	—0·0007	0·000
2434	...	...	...	...	B.D. — 4° No. 4877.....	7·6‡	89·53	7	19 34 56·730	+ 3·1642	— 0·004	+0·0012	+ 0·001
2435	8094	...	6708	26929	Lacaille 8094	6·3	92·49	37	19 35 43·053	+11·371	— 0·533	—0·008†	+ 0·020
2436	...	...	...	...	Lalande 37368.....	7·6‡	89·55	19	19 35 59·250	+ 3·1696	— 0·004	—0·0014	— 0·001
2437	...	...	...	...	Lalande 37406.....	6·2†	91·41	5	19 35 59·828	+ 2·5424	+ 0·001	...	...
2438	2499	229	6744	...	6 Sagittæ .....*β*	4·4	90·77	8	19 36 6·482	+ 2·6940	0·000	—0·0008	+ 0·001
2439†	8156	...	6732	26980	Lacaille 8156	5·5	93·43	9	19 36 43·487	+ 7·0050	— 0·145	—0·007	+ 0·024
2440†	8211	243	6755	27053	Lacaille 8211	5·7	90·09	12	19 39 0·059	+ 3·8362	— 0·015	—0·0029	0·000
2441†	8200	...	6751	27043	Telescopii .....*ν*	5·6	90·24	9	19 39 2·027	+ 4·9155	— 0·045	+0·0038	— 0·001
2442	2508	256	6758	...	10 Vulpeculæ	5·4	89·62	9	19 39 8·450	+ 2·4934	+ 0·001	—0·0007	0·000
2443	8194	...	...	27047	Lacaille8194(as one mass)	7*	93·01	6	19 39 20·699	+ 5·3621	— 0·063	...	...
2444	...	...	...	...	W.B. XIX. 964	8·4‡	89·51	12	19 39 26·870	+ 3·1741	— 0·004	—0·0010	0·000
2445*	2504	249	6760	27075	56 Sagittarii .....*f*	5·1	93·01	8	19 39 56·704	+ 3·5141	— 0·009	—0·0112	+ 0·034
2446	...	...	...	27096	C.G.A. 27096	8¾*	94·70	3	19 40 55·271	+ 3·5878	— 0·010	...	...
2447	2511	264	6772	...	50 Aquilæ .....*γ*	2·8	89·23	30	19 41 1·790	+ 2·8518	— 0·001	—0·0005	0·000
2448	...	...	...	...	Lalande 37581.....	7·9‡	89·59	7	19 41 2·730	+ 3·1556	— 0·004	+0·0001	0·000
2449	8207	...	6766	27100	Lacaille8207(as one mass)	5·5	93·10	11	19 41 24·520	+ 5·1208	— 0·054	...	...
2450	2520	280	6779	...	18 Cygni .....*δ*	3·1	88·00	2	19 41 32·130	+ 1·8705	0·000	+0·0046	+ 0·009

2418. Fundamental star for Southern Zones. h^2 Sagittarii in B.A.C. and C.G.A.
2432. e^1 Sagittarii in B.A.C. and C.G.A.

2445. Fundamental star for Southern Zones.

No.	Mean Date. 1800+	No. of Obs.	Mean Dec. 1890·0.	Sec. of Final Dec.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_δ.	Corr. for μ_δ to 1890·0.	Fallows and Henderson.	Johnson.	Cape Catalogues. 1840.	1850.	1860.	1880.	1885.	Melbourne, 1870 and 1880.
			° ′ ″	″	″	″	″	″								
2416*	89·53	7	— 4 32 58·46	58·53	+ 7·625	+ 0·42	— 0·013	—0·01	...	...	...	...	...	...	...	...
2417	89·50	7	— 12 29 34·69	34·80	+ 7·628	+ 0·45	...	...	...	...	...	...	...	...	...	...
2418†	86·75	8	— 25 7 31·86	32·08	+ 7·675	+ 0·49	— 0·015	—0·05	...	497	2556	3867	894	10584	1359	994*
2419	91·66	5	— 6 12 46·83	46·83	+ 7·718	+ 0·43	...	...	...	...	...	...	...	...	...	...
2420*	91·46	2	— 82 25 24·18	24·25	+ 7·724	+ 1·66	...	...	...	...	...	...	...	...	...	...
2421*	89·52	9	— 5 0 55·21	55·28	+ 7·733	+ 0·42	+ 0·01	0·00	...	...	...	...	...	...	...	...
2422*	89·58	10	— 4 32 36·20	36·27	+ 7·750	+ 0·42	— 0·024	—0·01	...	...	...	...	...	...	...	...
2423	87·50	2	— 7 16 16·93	17·20	+ 7·753	+ 0·43	+ 0·007	+0·02	315	498	...	3871	...	10590	1360	*966*
2424	92·91	7	+ 42 10 19·59	19·03	+ 7·763	+ 0·26	...	...	...	...	...	...	...	...	...	...
2425*	89·58	6	— 3 43 11·63	11·68	+ 7·788	+ 0·42	— 0·02	—0·01	...	...	...	...	...	...	...	...
2426	91·70	15	+ 20 5 17·08	17·00	+ 7·821	+ 0·35	...	...	...	...	...	...	...	...	...	...
2427*	89·56	11	— 4 53 32·85	32·91	+ 7·831	+ 0·42	— 0·045	—0·02	...	...	...	3874	...	...	...	...
2428*	88·64	2	— 52 12 50·50	50·57	+ 7·857	+ 0·62	...	...	...	...	...	...	...	...	...	...
2429	94·24	8	+ 43 27 36·67	35·96	+ 7·917	+ 0·25	...	...	...	...	...	...	...	...	...	...
2430	92·90	4	+ 38 8 13·15	12·68	+ 7·921	+ 0·28	...	...	...	...	...	...	...	...	...	...
2431†	92·88	8	+ 49 57 60·63	59·44	+ 7·955	+ 0·21	+ 0·239	—0·69	...	...	2561	...	...	...	...	...
2432*	89·77	6	— 16 32 41·37	41·43	+ 8·030	+ 0·46	— 0·039	—0·01	316	...	...	3878	...	10613	...	...
2433*	89·44	22	— 5 41 59·58	59·69	+ 8·036	+ 0·42	0·000	0·00	...	...	...	...	...	...	...	...
2434*	89·53	7	— 4 17 13·39	13·45	+ 8·072	+ 0·42	+ 0·014	+0·01	...	...	...	...	...	...	...	...
2435*	89·95	136	— 81 37 22·90	22·88	+ 8·134	+ 1·51	+ 0·007†	0·00	...	...	...	3869	896	10611	1362	995*
2436*	89·55	19	— 4 32 41·74	41·80	+ 8·155	+ 0·42	+ 0·004	0·00	...	...	...	...	...	...	...	...
2437	91·41	5	+ 23 27 47·75	47·52	+ 8·156	+ 0·34	...	...	...	...	...	...	...	...	...	...
2438	90·77	8	+ 17 13 17·55	17·39	+ 8·165	+ 0·36	— 0·044	+0·03	...	...	...	...	...	...	1363	...
2439	93·43	9	— 72 46 12·19	12·23	+ 8·214	+ 0·93	+ 0·032	—0·11	...	...	2560	3877	...	10621	...	...
2440	90·09	12	— 32 10 23·45	23·47	+ 8·395	+ 0·50	— 0·035	0·00	...	...	2567	3886	...	10636	...	997
2441	90·24	9	— 56 37 33·09	33·01	+ 8·398	+ 0·65	— 0·15	+0·04	...	...	2564	3884	...	10634	...	...
2442	89·62	9	+ 25 30 31·82	31·51	+ 8·407	+ 0·33	+ 0·026	+0·01	...	...	...	...	...	...	...	...
2443†	93·01	6	— 62 4 52·36	52·44	+ 8·423	+ 0·71	...	...	...	...	...	...	...	10637	...	...
2444*	89·51	12	— 4 47 14·51	14·58	+ 8·431	+ 0·42	+ 0·007	0·00	...	...	...	...	...	...	...	...
2445*	93·01	8	— 20 1 29·47	29·70	+ 8·471	+ 0·46	— 0·078	+0·23	...	...	...	3889	902	...	1365	*969*
2446	94·70	3	— 23 4 44·99	45·24	+ 8·548	+ 0·47	...	...	...	...	...	...	...	...	...	...
2447	88·98	47	+ 10 20 44·23	44·02	+ 8·557	+ 0·37	+ 0·008	+0·01	318*	...	2571	3893	905	10650	1367	1000*
2448*	89·59	7	— 3 55 52·55	52·60	+ 8·558	+ 0·41	0·000	0·00	...	...	...	...	...	...	...	...
2449†	93·10	11	— 59 28 0·17	0·18	+ 8·586	+ 0·67	...	...	...	...	2570	3890	...	10651	...	...
2450†	92·10	10	+ 44 51 46·51	45·74	+ 8·596	+ 0·24	+ 0·035	—0·07	...	...	2574	...	...	...	...	*971*

2416, 2421, 2422, 2425, 2427, 2433, 2434, 2436, 2444, 2448. Magnitude and Proper Motion from *Cape Annals*, Vol. VII.
2418. $4^m{\cdot}6$, $10^m{\cdot}7$ $2''{\cdot}8$ 161°. Brighter star observed.
2420, 2428. Magnitude from Cape observations.
2431. $4^m{\cdot}7$, $14^m{\cdot}5$ $3''{\cdot}8$ 47°. Physical pair. Fainter star not seen.
2435. Proper Motion determined for this Catalogue.
2443. $7^m{\cdot}5$, $8^m{\cdot}0$ $0''{\cdot}8 \pm$ 185° $\pm$. Observed as one mass.
2449. $5^m{\cdot}7$, $7^m{\cdot}7$ $0''{\cdot}7 \pm$ 80° $\pm$. Observed as one mass.
2450. Close binary; $3^m{\cdot}1$, $7^m{\cdot}6$. No note of duplicity.

No.	Bradley or Lacaille.	Piazzi. 1800.	B.A.C. 1850.	C.G.A. 1875.	Star's Name.	Mag.	Mean Date. 1800+	No. of Obs.	Mean R.A. 1890·0.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_a.	Corr. for μ_a to 1890·0.
									h m s	s	s	s	s
2451	...	...	...	...	Lalande 37623.....	7·9‡	90·42	10	19 41 56·524	+ 3·1888	— 0·004	—0·0011	0·000
2452	8221	...	6774	27115	Lacaille 8221	6·3*	92·31	6	19 42 11·343	+ 4·4042	— 0·030	...	...
2453	2516	279	6783	...	7 Sagittæ .....δ	3·7	89·09	11	19 42 28·960	+ 2·6747	0·000	—0·0008	— 0·001
2454	...	...	...	...	Lalande 37664.....	7·9‡	89·55	19	19 43 7·710	+ 3·1730	— 0·004	—0·0007	0·000
2455	8228	...	...	27136	Lacaille 8228	6·7*	89·85	6	19 43 21·853	+ 4·5718	— 0·036	...	...
2456	...	...	...	...	Lalande 37697.....	8·0‡	89·53	6	19 43 47·040	+ 3·1736	— 0·004	—0·0025	— 0·001
2457	...	...	...	27183	Lalande 37745.....	6·7‡	89·52	8	19 44 59·390	+ 3·1768	— 0·004	—0·0002	0·000
2458†	8826	...	6787	27174	Lacaille 8226	6·2	90·73	9	19 45 3·976	+ 5·2762	— 0·063	—0·002	+ 0·001
2459	2524	294	6802	...	53 Aquilæ .....α	1·0	89·95	39	19 45 24·935	+ 2·8918	— 0·001	+0·0351	+ 0·002
2460	...	...	6817	...	Lalande 37847	5·5	88·56	1	19 46 50·670	+ 2·0590	+ 0·001	...	...
2461*	2526	303	6811	...	55 Aquilæ .....η	Var.	86·36	3	19 46 52·263	+ 3·0574	— 0·003	—0·0017	— 0·006
2462	...	...	...	...	W.B. XIX. 1154	8·3†	91·66	5	19 47 29·610	+ 3·2039	— 0·005	...	...
2463	...	...	...	...	W.B. XIX. 1158	8·2‡	89·49	11	19 47 30·390	+ 3·1738	— 0·005	—0·0032	— 0·002
2464†	8255	297	6812	27239	Sagittarii .....ι	4·1	90·99	10	19 47 40·247	+ 4·1517	— 0·025	—0·0026	+ 0·003
2465†	8219	...	6801	27225	Pavonis .....ε	4·0	90·62	9	19 47 51·466	+ 7·0189	— 0·165	+0·0135	— 0·008
2466	8245	...	6807	27237	Lacaille 8245	5·3	94·61	7	19 47 51·694	+ 5·0704	— 0·056	...	...
2467	...	...	...	...	C.P.D. — 23° No. 7608..	9·5‡	87·69	3	19 48 21·081	+ 3·6008	— 0·012	...	...
2468	...	...	...	...	W.B. XIX. 1178	8·1‡	89·53	11	19 48 25·680	+ 3·1836	— 0·005	+0·0033	+ 0·002
2469	...	...	...	...	Gilliss P.Z. 14127	8·6‡	91·49	2	19 48 38·265	+22·131	— 2·941	...	...
2470	...	...	6830	...	Lalande 37968.....	5·8	...	...	19 48 53	+ 1·7683	— 0·001	...	...
2471	...	...	...	...	C.P.D. — 36° No. 8956..	8·5‡	87·69	2	19 49 38·791	+ 3·9561	— 0·020	...	...
2472	8274	...	6829	27284	Lacaille 8274	6·6*	88·69	13	19 49 53·806	+ 3·7812	— 0·016	...	...
2473	2538	324	6833	...	60 Aquilæ .....β	4·0	89·22	27	19 49 54·581	+ 2·9451	— 0·002	+0·0007	+ 0·001
2474	...	...	...	...	Lalande 38029.....	6·9†	90·15	6	19 50 43·272	+ 2·3916	+ 0·001	...	...
2475	...	...	...	...	Lalande 37995.....	8·1‡	89·51	10	19 51 29·120	+ 3·1755	— 0·005	+0·0021	+ 0·001
2476	...	...	...	...	B.D. — 5° No. 5124 ...	8·5‡	89·59	10	19 52 6·770	+ 3·1857	— 0·005	—0·0001	0·000
2477	2539*	331	6842	27332	60 Sagittarii .....A	5·0	91·69	3	19 52 15·060	+ 3·6605	— 0·013	0·0000	0·000
2478	...	...	...	...	Lalande 38042.....	8·0‡	90·40	10	19 52 21·366	+ 3·2100	— 0·005	—0·0036	+ 0·001
2479†	8291	330	6843	27344	Sagittarii .....θ¹	4·7	88·23	11	19 52 34·529	+ 3·9156	— 0·019	—0·0039	— 0·007
2480	...	...	...	...	Lalande 38056.....	8·0‡	89·51	6	19 52 41·260	+ 3·1684	— 0·005	—0·0029	— 0·001
2481	2550	352	6858	...	12 Sagittæ .....γ	3·7	88·33	9	19 53 51·912	+ 2·6634	0·000	+0·0030	+ 0·005
2482	...	...	...	...	Lalande 38096.....	7·0†	94·63	2	19 54 6·241	+ 3·5037	— 0·010	...	...
2483	...	...	...	27394	C.G.A. 27394	8*	88·14	9	19 54 19·483	+ 3·9565	— 0·021	...	...
2484	...	...	...	...	Lalande 38151.....	7·4‡	89·54	7	19 55 0·490	+ 3·1670	— 0·005	—0·0003	0·000
2485	...	...	...	...	W.B. XIX. 1349	8·3‡	89·53	8	19 55 43·000	+ 3·2095	— 0·005	—0·0022	— 0·001

No.	Mean Date. 1800+	No. of Obs.	Mean Dec. 1890·0.	Sec. of Final Dec.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_δ.	Corr. for μ_δ to 1890·0.	Fallows and Henderson.	Johnson.	Cape Catalogues. 1840.	1850.	1860.	1880.	1885.	Melbourne, 1870 and 1880.
			° ′ ″	″	″	″	″	″								
2451*	90·42	10	— 5 30 14·33	14·35	+ 8·628	+ 0·42	+ 0·014	—0·01	...	...	...	...	...	...	...	...
2452	92·31	6	— 47 49 51·08	51·15	+ 8·648	+ 0·58	...	...	...	...	...	3895	...	10657	...	...
2453	88·92	12	+ 18 15 47·64	47·45	+ 8·671	+ 0·35	+ 0·031	+0·03	...	...	...	...	...	...	1368	...
2454*	89·55	19	— 4 46 10·26	10·32	+ 8·722	+ 0·41	— 0·016	—0·01	...	...	...	...	...	...	...	...
2455	89·86	6	— 51 15 10·56	10·56	+ 8·741	+ 0·60	...	...	...	...	...	...	...	10665	...	...
2456*	89·53	6	— 4 48 17·23	17·28	+ 8·774	+ 0·41	— 0·004	0·00	...	...	...	...	...	...	...	...
2457*	89·52	8	— 4 58 18·59	18·65	+ 8·868	+ 0·41	— 0·004	0·00	...	...	...	...	...	...	...	...
2458	90·73	9	— 61 27 13·26	13·20	+ 8·874	+ 0·69	+ 0·02	—0·01	...	...	2575	3904	...	10679	...	...
2459	89·65	54	+ 8 34 41·76	41·55	+ 8·902	+ 0·38	+ 0·384	+0·13	320*	...	2580	3913	909	10682	1371	1001*
2460	91·32	7	+ 40 19 12·84	12·42	+ 9·014	+ 0·26	...	...	...	...	...	...	...	...	...	...
2461*	86·70	4	+ 0 43 26·40	26·18	+ 9·015	+ 0·40	— 0·003	—0·01	...	...	...	...	...	10690	1373	*975*
2462	91·66	5	— 6 17 17·18	17·18	+ 9·064	+ 0·41	...	...	...	...	...	...	...	...	...	...
2463*	89·49	11	— 4 51 23·57	23·64	+ 9·065	+ 0·41	+ 0·015	+0·01	...	...	...	...	...	...	...	...
2464	90·99	10	— 42 9 22·66	22·70	+ 9·078	+ 0·54	+ 0·066	—0·07	...	502	2582	3917	911	10696	...	1003
2465	90·62	10	— 73 11 57·57	57·45	+ 9·093	+ 0·91	— 0·134	+0·08	...	501	2576	3912	910	10694	1374	1002*
2466	94·61	7	— 59 11 22·45	22·59	+ 9·093	+ 0·66	...	...	...	...	2581	3915	...	10697	...	...
2467*	87·70	4	— 23 56 13·37	13·62	+ 9·131	+ 0·46	...	...	...	...	...	...	...	...	...	...
2468*	89·53	11	— 5 19 51·47	51·54	+ 9·137	+ 0·41	+ 0·011	+0·01	...	...	...	...	...	...	...	...
2469*	91·49	2	— 86 25 43·24	43·24	+ 9·153	+ 2·87	...	...	...	...	...	...	...	...	...	...
2470	93·89	8	+ 47 38 54·50	53·55	+ 9·171	+ 0·23	...	...	...	...	...	...	...	...	...	...
2471*	87·69	3	— 36 40 5·74	5·95	+ 9·232	+ 0·51	...	...	...	...	...	...	...	...	...	...
2472	88·43	16	— 30 51 38·34	38·49	+ 9·252	+ 0·49	...	...	...	...	...	3928	...	10711	...	*978*
2473	89·08	37	+ 6 7 57·12	56·95	+ 9·252	+ 0·38	— 0·473	—0·43	322*	...	2587	3931	915	10712	1375	1008*
2474	90·15	6	+ 29 54 17·89	17·65	+ 9·315	+ 0·30	...	...	...	...	...	...	...	...	...	...
2475*	89·51	10	— 4 58 45·20	45·26	+ 9·374	+ 0·40	— 0·045	—0·02	...	...	...	...	...	...	...	...
2476*	89·59	10	— 5 28 50·18	50·24	+ 9·423	+ 0·41	+ 0·1	+0·04	...	...	...	...	...	...	...	...
2477	91·69	3	— 26 29 33·62	33·55	+ 9·434	+ 0·47	+ 0·034	—0·06	...	...	...	3936	916	10731	...	*980*
2478*	90·40	10	— 6 38 47·11	47·13	+ 9·442	+ 0·41	— 0·001	0·00	...	...	...	...	...	...	...	...
2479	88·19	12	— 35 34 22·46	22·59	+ 9·459	+ 0·50	— 0·041	—0·07	...	...	...	3937	...	10735	...	...
2480*	89·51	6	— 4 39 7·46	7·51	+ 9·467	+ 0·40	+ 0·035	+0·02	...	...	...	...	...	...	...	...
2481	88·33	9	+ 19 11 37·91	37·73	+ 9·558	+ 0·34	+ 0·037	+0·06	...	...	...	...	...	...	1376	...
2482	94·64	3	— 20 9 25·60	25·84	+ 9·576	+ 0·45	...	...	...	...	...	...	...	...	1377	...
2483	88·03	12	— 36 58 48·56	48·74	+ 9·593	+ 0·50	...	...	...	...	...	...	...	10752	...	...
2484*	89·54	7	— 4 36 43·32	43·38	+ 9·646	+ 0·40	— 0·023	—0·01	...	...	...	...	...	...	...	...
2485*	89·53	8	— 6 40 40·01	40·06	+ 9·700	+ 0·40	+ 0·021	+0·01	...	...	...	...	...	...	...	...

2451, 2454, 2456, 2457, 2463, 2468, 2475. 2476, 2478, 2480, 2484, 2485. Magnitude and Proper Motion from *Cape Annals*, Vol. VII.
2461. Limits of magnitude, 3·5-4·7. Period 7^d·176381.
2467, 2471. Magnitude from *Cordoba Durchmusterung*.
2469. Magnitude from Cape observations.

No.	Bradley or Lacaille.	Piazzi. 1800.	B.A.C. 1850.	C.G.A. 1875.	Star's Name.	Mag.	Mean Date. 1800+	No. of Obs.	Mean R.A. 1890·0.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_a.	Corr. for μ_a to 1890·0.
									h m s	s	s	s	s
2486†	2549*	355	6870	27430	62 Sagittarii .....*o*	4·7	88·58	12	19 55 53·604	+ 3·6947	— 0·015	— 0·0002	0·000
2487	...	...	...	...	B.D. + 23° No. 3868 ...	7·3†	90·68	7	19 56 1·320	+ 2·5642	+ 0·001	...	...
2488	...	...	...	27449	Lalande 38214.....	6·6‡	89·52	9	19 56 20·870	+ 3·1808	— 0·005	+ 0·0011	+ 0·001
2489	2558	375	6879	...	15 Vulpeculæ	4·9	91·75	9	19 56 34·206	+ 2·4660	+ 0·001	+ 0·0029	— 0·005
2490	...	...	...	...	B.D. — 8° No. 5205.....	8·0‡	89·59	8	19 57 8·060	+ 3·2364	— 0·006	0·00	0·000
2491*	8325	369	6878	27461	M. 811	6·4	87·68	1	19 57 13·191	+ 3·5650	— 0·012	— 0·0056	— 0·013
2492	...	...	...	...	Lalande 38252.....	8·1‡	89·59	7	19 57 25·040	+ 3·1732	— 0·005	— 0·0041	— 0·002
2493†	8295	...	6873	27468	Pavonis .....*δ*	3·6	90·22	12	19 57 55·645	+ 5·7440	— 0·097	+ 0·1923	— 0·042
2494	...	...	...	...	C.Z. XIX. 2319	8*	88·62	2	19 58 18·011	+ 4·2471	— 0·030	...	...
2495	2564	386	6893	...	63 Aquilæ .....*τ*	5·6	89·00	8	19 58 46·030	+ 2·9306	— 0·002	+ 0·0003	0·000
2496†	8321	...	6885	27496	Telescopii .....*ξ*	4·8	91·19	11	19 58 57·281	+ 4·6239	— 0·044	— 0·008	+ 0·010
2497	...	389	...	27510	Piazzi XIX. 389	8·4‡	89·62	8	19 59 27·060	+ 3·2127	— 0·006	— 0·0021	— 0·001
2498	8256	...	...	27493	Lacaille 8256	7½*	92·45	11	20 0 0·358	+ 9·2192	— 0·403	...	...
2499	...	...	...	27533	Lalande 38405.....	7·0‡	89·58	6	20 0 48·080	+ 3·1681	— 0·005	+ 0·0021	+ 0·001
2500	...	...	...	...	B.D. — 7° No. 5169.....	7·9‡	89·57	10	20 0 49·970	+ 3·2211	— 0·006	+ 0·001	0·000
2501	...	...	...	...	Lalande 38416.....	7·5‡	89·57	7	20 1 6·950	+ 3·2450	— 0·006	— 0·0008	0·000
2502	8202	...	6859	27498	Lacaille 8202	6·3	87·74	14	20 1 19·781	+13·437	— 1·058	...	...
2503	...	402	6903	27554	Piazzi XIX. 402	8*	94·69	4	20 1 51·711	+ 3·4720	— 0·010	0·000	0·000
2504	...	...	...	...	C.P.D. — 36° No. 9028..	9·3‡	87·67	3	20 2 39·441	+ 3·9189	— 0·022	...	...
2505	...	...	...	...	Lalande 38544.....	8·1‡	89·59	11	20 2 49·120	+ 3·2206	— 0·006	— 0·0017	— 0·001
2506	...	4	...	27633	Piazzi XX. 4	6·5‡	89·51	15	20 5 12·200	+ 3·2569	— 0·007	+ 0·0001	0·000
2507	2582	22	6937	...	28 Cygni.....b^2	4·8	86·61	1	20 5 20·400	+ 2·2270	+ 0·002	+ 0·0003	+ 0·001
2508*	2576	10	6934	27648	65 Aquilæ .....*θ*	3·4	90·37	38	20 5 37·739	+ 3·0953	— 0·004	— 0·0001	0·000
2509	...	...	...	...	B.D. — 23° No. 414	9·3†	87·68	3	20 5 37·851	+ 3·5554	— 0·013	...	...
2510	2585	34	6943	...	19 Vulpeculæ	5·8	88·35	6	20 7 12·180	+ 2·5065	+ 0·001	0·0000	0·000
2511	...	...	...	...	B.D. — 18° No. 5624 ...	8·0†	94·63	3	20 7 40·951	+ 3·4414	— 0·011	...	...
2512	...	...	...	...	Lalande 38757.....	6·3†	87·45	8	20 7 51·000	+ 2·8413	— 0·001	...	...
2513	...	...	...	...	C.P.D. — 40° No. 9259..	8·6‡	88·63	3	20 9 14·801	+ 4·0476	— 0·027	...	...
2514	2601	59	6962	...	30 Cygni.....o^1	4·9	...	...	20 9 50	+ 1·8845	0·000	+ 0·0017	...
2515	...	...	...	...	B.D. — 22° No. 5381 ...	8·8†	91·67	3	20 10 7·820	+ 3·5466	— 0·013	...	...
2516	2603	62	6965	...	31 Cygni.....o^1	3·8	87·00	5	20 10 9·946	+ 1·8887	0·000	— 0·0004	— 0·001
2517	8393	...	6961	27788	Lacaille 8393	6·3*	90·66	7	20 11 23·180	+ 4·3162	— 0·037	+ 0·021†	— 0·014
2518	2593	54	6972	27796	5 Capricorni .....a^1	4·5	87·75	8	20 11 33·048	+ 3·3285	— 0·008	— 0·0008	— 0·002
2519*	2591	53	6971	27794	4 Capricorni	6·0	94·63	4	20 11 33·621	+ 3·5295	— 0·013	+ 0·0001	0·000
2520*	2595	58	6974	27800	6 Capricorni .....a^2	3·8	87·67	18	20 11 57·087	+ 3·3290	— 0·008	+ 0·0022	+ 0·005

2491, 2519. Fundamental star for Southern Zones.
2516. o^2 Cygni in B.A.C.

2496. B.A.C. assigns to Pavo.

No.	Mean Date. 1800+	No. of Obs.	Mean Dec. 1890·0.	Sec. of Final Dec.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_δ.	Corr. for μ_δ to 1890·0.	Fallows and Henderson.	Johnson.	Cape Catalogues. 1840.	1850.	1860.	1880.	1885.	Melbourne, 1870 and 1880.
			° ′ ″	″	″	″	″	″								
2486	88·46	13	— 28 0 54·16	54·23	+ 9·714	+ 0·47	+ 0·024	+0·04	323	505	2591	3946	921	10762	1379	1010*
2487	90·68	7	+ 23 29 46·56	46·42	+ 9·723	+ 0·32	...	...	...	...	...	...	...	...	...	...
2488*	89·52	9	— 5 17 39·53	39·61	+ 9·749	+ 0·40	— 0·025	—0·01	...	...	...	...	...	...	...	...
2489	91·75	9	+ 27 26 59·05	58·86	+ 9·765	+ 0·31	+ 0·026	—0·05	...	...	...	...	...	...	...	...
2490*	89·59	8	— 8 0 5·06	5·11	+ 9·808	+ 0·41	— 0·1	—0·04	...	...	...	...	...	...	...	...
2491*	87·41	4	— 22 54 12·60	12·86	+ 9·815	+ 0·45	+ 0·041	+0·11	...	...	...	3952	...	10773	1380	983
2492*	89·59	7	— 4 56 18·82	18·86	+ 9·830	+ 0·40	+ 0·017	+0·01	...	...	...	...	...	...	...	...
2493	90·25	13	— 66 27 40·22	40·21	+ 9·869	+ 0·73	— 1·149	+0·29	...	504	2592	3949	924	10776	1381	1012
2494	88·62	2	— 45 17 27·69	27·76	+ 9·897	+ 0·54	...	...	...	...	...	...	...	...	...	...
2495	89·00	8	+ 6 58 4·23	4·13	+ 9·933	+ 0·37	+ 0·036	+0·04	...	...	2595	...	...	...	1382	...
2496*	91·23	12	— 53 11 41·10	41·07	+ 9·947	+ 0·58	+ 0·01	—0·01	...	...	2594	3955	...	10785	...	...
2497*	89·62	8	— 6 53 48·09	48·12	+ 9·985	+ 0·40	— 0·016	—0·01	...	...	...	...	...	...	...	...
2498	92·08	12	— 79 19 59·23	59·12	+ 10·027	+ 1·16	...	...	...	...	...	...	...	10787	...	...
2499*	89·58	6	— 4 43 54·01	54·05	+ 10·087	+ 0·39	— 0·006	0·00	...	...	...	...	...	...	...	...
2500*	89·57	10	— 7 19 46·06	46·11	+ 10·090	+ 0·40	— 0·02	—0·01	...	...	...	...	...	...	...	...
2501*	89·57	7	— 8 29 49·71	49·75	+ 10·111	+ 0·40	— 0·022	—0·01	...	...	...	...	...	...	...	...
2502	87·63	15	— 83 38 50·13	50·18	+ 10·127	+ 1·69	...	...	...	...	...	3944	923	10789	...	1014*
2503	94·69	4	— 19 7 16·56	16·82	+ 10·166	+ 0·43	+ 0·01	—0·05	...	...	...	3966	...	...	...	...
2504*	87·68	4	— 36 21 16·00	16·22	+ 10·227	+ 0·49	...	...	...	...	...	...	...	...	...	...
2505*	89·59	11	— 7 20 23·73	23·77	+ 10·239	+ 0·40	— 0·020	—0·01	...	...	...	...	...	...	...	...
2506*	89·51	15	— 9 10 2·69	2·75	+ 10·418	+ 0·40	0·000	0·00	...	...	...	...	...	...	1385	...
2507	90·15	8	+ 36 30 57·27	56·93	+ 10·428	+ 0·27	+ 0·050	—0·01	...	...	...	...	...	...	...	...
2508	89·68	47	— 1 8 50·05	50·23	+ 10·450	+ 0·38	+ 0·014	0·00	325	507	...	3986	...	10825	1386	988
2509	87·68	3	— 22 56 18·51	18·77	+ 10·450	+ 0·44	...	...	...	...	...	...	...	...	...	...
2510	88·35	6	+ 26 28 52·06	51·71	+ 10·567	+ 0·31	— 0·004	—0·01	...	...	2604	...	...	...	...	...
2511	94·63	3	— 18 0 25·13	25·37	+ 10·603	+ 0·42	...	...	...	...	...	...	...	...	...	...
2512	87·45	8	+ 11 31 22·23	21·91	+ 10·615	+ 0·35	...	...	...	...	...	...	...	...	...	...
2513*	88·63	3	— 40 47 46·79	46·87	+ 10·719	+ 0·50	...	...	...	...	...	...	...	...	...	...
2514	90·00	1	+ 46 29 0·88	0·22	+ 10·762	+ 0·23	— 0·016	0·00	...	...	2607	...	...	...	...	990
2515	91·67	3	— 22 48 33·56	33·52	+ 10·784	+ 0·43	...	...	...	...	...	...	...	...	...	...
2516*	89·00	11	+ 46 24 29·23	28·45	+ 10·787	+ 0·23	+ 0·002	0·00	...	...	2608	...	...	...	1388	...
2517*	90·66	7	— 47 54 57·18	57·07	+ 10·876	+ 0·52	— 0·19†	+0·13	...	...	...	4002	...	10859	...	...
2518	90·29	14	— 12 50 51·31	51·49	+ 10·889	+ 0·40	+ 0·026	—0·01	108	508	2609	4006	...	10861	1390	1029*
2519*	94·63	4	— 22 8 56·28	56·52	+ 10·889	+ 0·43	— 0·030	+0·14	...	...	...	4005	941	...	1389	992
2520	88·35	23	— 12 53 6·41	6·60	+ 10·918	+ 0·40	+ 0·017	+0·03	326*	509	2610	4007	942	10864	1391	1030*

2488, 2490, 2492, 2497, 2499, 2500, 2501, 2505, 2506. Magnitude and Proper Motion from *Cape Annals*, Vol. VII.
2504, 2513. Magnitude from *Cordoba Durchmusterung*.
2517. Proper Motion from *Cincinnati Publications*, No. 12.

No.	Bradley or Lacaille.	Piazzi. 1800.	B.A.C. 1850.	C.G.A. 1875.	Star's Name.	Mag.	Mean Date. 1800+	No. of Obs.	Mean R.A. 1890·0.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_a.	Corr. for μ_a to 1890·0.
									h m s	s	s	s	s
2521	2606	70	6979	...	24 Vulpeculæ	5·5	87·83	6	20 12 4·735	+ 2·5656	+ 0·001	+0·0004	+ 0·001
2522	...	76	6987	27858	Piazzi XX. 76	7½*	90·86	6	20 14 6·480	+ 3·4780	— 0·012	...	...
2523	...	84	...	27874	Piazzi XX. 84	6·4‡	89·55	52	20 14 34·760	+ 3·2033	— 0·006	—0·0047	— 0·002
2524*	2609	83	6995	27880	9 Capricorni .....β	3·4	87·55	11	20 14 49·875	+ 3·3732	— 0·010	+0·0008	+ 0·002
2525	...	...	...	27882	Lalande 39031.....	8*	...	...	20 14 59	+ 3·5633	— 0·014	...	...
2526†	8415	75	6989	27879	Sagittarii.....κ¹	5·7	91·62	12	20 14 59·301	+ 4·0874	— 0·030	+0·0046	— 0·007
2527	...	...	...	...	B.D. — 22° No. 5402 ...	9·3†	87·67	3	20 15 15·691	+ 3·5292	— 0·013	...	...
2528	...	...	...	...	Gilliss P.Z. 14392	8·7‡	91·48	2	20 15 34·466	+25·504	— 5·267	...	...
2529	...	...	...	...	B.D. — 16° No. 5565 ...	*	94·63	3	20 16 0·531	+ 3·3898	— 0·010	...	...
2530	...	...	7008	...	Lalande 39168.....	*	...	...	20 16 16	+ 2·1739	+ 0·002	...	...
2531	8257	...	...	27838	Lacaille 8257	7·1	92·46	41	20 16 16·142	+15·190	— 1·637	+0·028†	— 0·069
2532†	8416	...	7004	27918	Pavonis .....a	2·1	89·50	4	20 16 56·445	+ 4·7801	— 0·060	—0·0014	— 0·001
2533	2622	108	7013	...	25 Vulpeculæ	5·4	86·94	4	20 17 19·630	+ 2·5787	+ 0·001	—0·0015	— 0·005
2534	2624	124	7022	...	37 Cygni .....γ	2·3	85·75	4	20 18 16·730	+ 2·1519	+ 0·002	—0·0001	0·000
2535†	3256*	...	7018	27974	Bradley 3256	6·1	90·33	12	20 18 42·672	+ 3·6824	— 0·018	—0·0038	+ 0·001
2536	8360	...	6993	27956	Lacaille 8360	·5*	86·49	12	20 19 39·779	+10·549	— 0·692	...	...
2537	...	...	...	28013	C.G.A. 28013	6·1‡	89·55	51	20 19 58·250	+ 3·1329	— 0·005	—0·007	— 0·003
2538	2623	131	7031	28036	10 Capricorni .....pr. π	5·2	88·12	8	20 21 1·490	+ 3·4393	— 0·011	—0·0009	— 0·002
2539	...	...	...	...	Lalande 39342.....	6·5†	88·37	17	20 21 21·654	+ 2·7400	0·000	...	...
2540	8457	...	7034	28044	Lacaille 8457	6·6*	89·04	6	20 21 25·647	+ 3·6035	— 0·016	...	...
2541	...	...	...	...	C.P.D. — 37° No. 8831	8·9‡	88·63	2	20 22 26·941	+ 3·9180	— 0·026	...	...
2542*	2626	142	7042	28073	11 Capricorni .....ρ	*	89·45	31	20 22 35·166	+ 3·4292	— 0·011	—0·0026	— 0·001
2543	8463	146	7049	28092	Lacaille 8463	6·5*	...	...	20 23 4	+ 3·5275	— 0·014	—0·0015†	...
2544	2634	164	7061	...	40 Cygni	5·5	86·72	1	20 23 29·830	+ 2·2237	+ 0·002	—0·0035	— 0·011
2545	2640	179	7073	...	42 Cygni	6·0	...	...	20 25 8	+ 2·2870	+ 0·002	+0·0003	...
2546	8471	...	...	28137	Lacaille 8471	6·9*	87·98	7	20 26 1·491	+ 4·0364	— 0·031	...	...
2547	...	...	...	...	C.Z. XX. 840	7½*	88·63	2	20 26 5·980	+ 3·8601	— 0·024	...	...
2548	8461	...	7066	28140	Pavonis.....φ¹	4·7	89·12	9	20 26 27·890	+ 5·0044	— 0·078	+0·004*	+ 0·004
2549	...	...	...	...	B.D. — 21° No. 5753.....	9·0†	91·70	3	20 27 10·930	+ 3·4970	— 0·014	...	...
2550	2642	191	7088	...	2 Delphini .....ε	4·1	88·88	24	20 27 57·441	+ 2·8663	— 0·001	—0·0006	— 0·001
2551	...	...	...	...	C.P.D. — 35° No. 8884..	7·7‡	88·68	4	20 28 2·340	+ 3·8230	— 0·024	...	...
2552†	8470	...	7082	28179	Pavonis ....ρ	5·0	89·78	10	20 28 21·582	+ 5·0702	— 0·083	+0·001	0·000
2553†	8435	...	7068	28162	Octantis .....μ¹	6·1	91·18	23	20 28 26·313	+ 7·5352	— 0·301	+0·053	— 0·063
2554	...	...	...	...	W.B. XX. 665	8·7†	94·64	3	20 28 36·981	+ 3·3150	— 0·009	...	...
2555	...	...	7100	...	Lalande 39711.....	6·5†	...	...	20 29 2	+ 2·0866	+ 0·002	...	...

No.	Mean Date. 1800+	No. of Obs.	Mean Dec. 1890·0.	Sec. of Final Dec.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_δ.	Corr. for μ_δ to 1890·0.	Fallows and Henderson.	Johnson.	Cape Catalogues. 1840.	1850.	1860.	1880.	1885.	Melbourne, 1870 and 1880.
			° ′ ″	″	″	″	″	″								
2521	88·40	5	+ 24 19 57·49	57·27	+10·928	+ 0·31	— 0·032	—0·05	...	...	...	...	...	...	1392	...
2522	90·86	6	— 19 59 29·32	29·28	+11·076	+ 0·42	...	...	...	...	...	4012	...	...	...	...
2523*	89·55	52	— 6 42 17·98	18·03	+11·111	+ 0·38	— 0·085	—0·04	...	...	...	...	...	...	...	...
2524	87·92	13	— 15 7 41·39	41·59	+11·129	+ 0·40	+ 0·022	+0·05	328	511	2612	4018	946	10888	1393	*998*
2525	92·67	20	— 23 49 26·83	26·95	+11·140	+ 0·43	...	...	...	...	...	...	...	...	...	...
2526	91·62	12	— 42 23 43·93	43·90	+11·140	+ 0·49	— 0·106	+0·17	...	...	...	4014	...	10889	...	...
2527	87·69	4	— 22 21 4·73	4·99	+11·160	+ 0·42	...	...	...	...	...	...	...	...	...	...
2528*	91·48	2	— 87 10 4·33	4·34	+11·183	+ 3·08	...	...	...	...	...	...	...	...	...	...
2529*	94·63	3	— 15 58 27·87	28·12	+11·214	+ 0·40	...	...	...	...	...	..	...	...	...	...
2530†	91·37	6	+ 39 3 23·15	22·83	+11·233	+ 0·26	...	...	...	...	...	...	...	...	...	...
2531*	90·21	145	— 84 46 41·91	41·87	+11·233	+ 1·83	+ 0·030†	—0·01	...	...	...	...	...	10885	1394	...
2532	89·50	4	— 57 5 12·50	12·40	+11·282	+ 0·57	— 0·080	—0·04	329*	512	2613	4020	948	10899	1395	1033*
2533	86·94	4	+ 24 5 44·41	43·99	+11·309	+ 0·31	— 0·001	0·00	...	...	...	...	...	...	...	...
2534	89·42	12	+ 39 54 17·71	17·29	+11·379	+ 0·25	+ 0·020	+0·01	...	...	2616	...	953	...	1398	...
2535	90·30	11	— 29 1 10·04	10·04	+11·409	+ 0·44	+ 0·02	—0·01	...	...	...	4028	...	10909	...	...
2536	87·05	34	— 81 39 31·97	32·04	+11·477	+ 1·26	...	...	...	...	...	4017	...	10907	1399	1035*
2537*	89·55	51	— 3 9 24·54	24·63	+11·500	+ 0·36	— 0·12	—0·05	...	...	...	...	...	...	...	...
2538†	88·12	8	— 18 34 18·79	18·84	+11·575	+ 0·40	+ 0·012	+0·02	330	513	2617	4037	...	...	1403	...
2539	88·33	18	+ 16 57 22·21	21·86	+11·599	+ 0·32	...	...	...	...	...	...	...	...	...	...
2540	89·04	6	— 25 58 8·08	8·17	+11·604	+ 0·42	...	...	...	...	...	4040	...	10926	...	...
2541*	88·63	2	— 37 52 46·38	46·48	+11·677	+ 0·46	...	...	...	...	...	...	...	...	...	...
2542†	89·07	30	— 18 10 36·28	36·41	+11·686	+ 0·40	— 0·007	—0·01	331	514	...	4045	959	10934	1405	1038*
2543*	92·65	35	— 22 45 20·18	20·33	+11·721	+ 0·41	— 0·044†	+0·12	...	...	2622	4050	...	10935	...	...
2544	90·57	8	+ 38 4 45·10	44·76	+11·751	+ 0·26	— 0·040	+0·02	...	...	...	...	...	...	...	...
2545	91·33	8	+ 36 5 15·63	15·36	+11·867	+ 0·26	+ 0·020	—0·03	...	...	...	...	...	...	...	...
2546	88·32	8	— 41 53 29·02	29·09	+11·930	+ 0·47	...	...	...	...	...	...	...	10950	...	...
2547	88·63	2	— 36 14 48·08	48·17	+11·935	+ 0·45	...	...	...	...	...	...	...	...	...	...
2548	89·12	9	— 60 57 4·28	4·25	+11·961	+ 0·58	...	...	...	...	2627	4061	...	10952	1408	...
2549	91·70	3	— 21 37 45·23	45·17	+12·011	+ 0·40	...	...	...	...	...	...	...	...	...	...
2550	89·03	68	+ 10 55 47·06	46·89	+12·065	+ 0·33	— 0·022	—0·02	...	...	...	...	...	10970	1410	*1012*
2551*	88·68	4	— 35 6 21·83	21·96	+12·071	+ 0·44	...	...	...	...	...	...	...	...	...	...
2552	89·78	10	— 61 54 24·84	24·85	+12·093	+ 0·58	— 0·04	—0·01	...	...	2629	4074	...	10971	...	1044
2553	91·20	24	— 76 33 51·25	51·14	+12·099	+ 0·87	— 0·027	+0·03	...	...	2626	4062	965	10966	...	...
2554	94·64	3	— 12 49 23·12	23·37	+12·112	+ 0·38	...	...	...	...	...	...	...	...	...	...
2555	93·58	7	+ 42 49 0·63	0·00	+12·140	+ 0·24	...	...	...	...	...	...	...	...	...	...

2523, 2537. Magnitude and Proper Motion from *Cape Annals*, Vol. VII.
2528. Magnitude from Cape observations.
2529. Magnitude noted at Cape, 1892 March, 9·0; 1896 October and November, 7·9; 7·2 in B.D.
2530. $7^{m}{\cdot}0$, $9^{m}{\cdot}2$. $3''{\cdot}2$ 292°. Fainter star probably not seen.
2531. Proper Motion determined for this Catalogue.
2538. $5^{m}{\cdot}2$, $8^{m}{\cdot}8$. $3''{\cdot}3$ 145°. Fainter star not seen.
2541, 2551. Magnitude from *Cordoba Durchmusterung*.
2542. $5^{m}{\cdot}1$, $7^{m}{\cdot}6$. $3''{\cdot}0$ 172°. No note of duplicity.
2543. Proper Motion from Newcomb's *Catalogue of* 1098 *Standard Stars*.

No.	Bradley or Lacaille.	Piazzi. 1800.	B.A.C. 1850.	C.G.A. 1875.	Star's Name.	Mag.	Mean Date. 1800+	No. of Obs.	Mean R.A. 1890·0.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_a.	Corr. for μ_a to 1890·0.
									h m s	s	s	s	s
2556†	8494	...	7096	28213	Indi ..... a	3·2	90·63	13	20 29 49·672	+ 4·2377	— 0·040	+0·0024	— 0·002
2557	...	...	...	28230	C.G.A. 28230	8¼*	88·65	4	20 30 20·030	+ 3·8017	— 0·023	...	...
2558	...	...	...	...	B.D. — 21° No. 5775 ...	9·7†	87·70	4	20 30 55·061	+ 3·4887	— 0·014	...	...
2559	2646	209	7110	28254	13 Capricorni	7·0*	89·21	6	20 31 11·063	+ 3·3660	— 0·011	+0·0020	+ 0·002
2560	8506	...	7113	28265	Lacaille 8506	6·8*	...	...	20 31 34	+ 3·5558	— 0·016	...	...
2561	2656	227	7121	...	6 Delphini (as one mass) β	3·7	89·11	9	20 32 23·424	+ 2·8060	0·000	+0·0057	+ 0·005
2562†	8517	...	...	28305	Lacaille 8517	5·5	90·36	11	20 33 25·739	+ 3·7748	— 0·023	0·000	0·000
2563	2664	245	7140	...	29 Vulpeculæ	4·8	91·13	8	20 33 36·551	+ 2·6742	+ 0·001	+0·0029	— 0·003
2564	2663	242	7141	...	7 Delphini..... κ	5·1	90·89	12	20 33 47·198	+ 2·8935	— 0·002	+0·0197	— 0·018
2565*	2657	233	7134	28317	15 Capricorni ..... υ	5·3	88·70	10	20 33 47·285	+ 3·4233	— 0·012	—0·0034	— 0·004
2566	2670	254	7149	...	9 Delphini..... α	4·0	93·00	6	20 34 31·692	+ 2·7824	0·000	+0·0031	— 0·009
2567†	8500	...	7129	28338	Pavonis ..... β	3·5	87·78	12	20 35 2·290	+ 5·4811	— 0·117	—0·0099	— 0·022
2568	...	...	...	...	B.D. — 21° No. 5797....	9·0†	87·69	4	20 35 10·171	+ 3·4767	— 0·014	...	...
2569†	8524	...	7154	28363	Indi..... η	4·7	89·49	14	20 35 57·467	+ 4·4175	— 0·051	+0·015	+ 0·008
2570	2679	285	7171	...	50 Cygni ..... α	1·5	...	...	20 37 41	+ 2·0438	+ 0·002	—0·0003	...
2571	2678	281	7173	...	11 Delphini..... δ	4·6	89·80	11	20 38 19·415	+ 2·8026	0·000	—0·0025	— 0·001
2572	...	...	...	...	Lalande 40034.....	9·0†	94·64	3	20 38 49·781	+ 3·2479	— 0·008	...	...
2573	8521	...	7165	28430	Pavonis ..... σ	5·5	92·60	12	20 38 52·679	+ 5·7761	— 0·144	...	...
2574†	2676*	282	7177	28455	16 Capricorni..... ψ	4·3	88·20	10	20 39 34·927	+ 3·5654	— 0·017	—0·0061	— 0·011
2575	2677	284	7179	28462	17 Capricorni	5·8	...	...	20 39 47	+ 3·4848	— 0·014	—0·0007	...
2576	...	...	...	...	Lalande 40112.....	7·0†	...	...	20 39 56	+ 2·1559	+ 0·003	...	...
2577	...	...	...	...	B.D. — 20° No. 6027 ...	9·0†	87·70	4	20 40 19·701	+ 3·4535	— 0·014	...	...
2578†	8554	289	7186	28490	Microscopii ..... ι	5·2	88·84	10	20 41 1·592	+ 4·0712	— 0·036	+0·0141	+ 0·016
2579	2685	303	7199	...	12 Delphini ..... *pr.* γ	5·6	90·65	1	20 41 32·480	+ 2·7857	0·000	—0·0033	+ 0·002
2580	2686	304	7200	...	12 Delphini ..... *seq.* γ	4·6	90·07	11	20 41 33·315	+ 2·7857	0·000	—0·0034	0·000
2581*	2681	299	7196	28511	2 Aquarii ..... ε	3·8	87·95	19	20 41 43·267	+ 3·2501	— 0·008	—0·0002	0·000
2582	2689	313	7204	...	53 Cygni ..... ε	2·7	91·54	13	20 41 45·641	+ 2·3976	+ 0·003	+0·0280	— 0·043
2583	2684	301	7201	28517	3 Aquarii	4·6	92·00	5	20 41 55·918	+ 3·1692	— 0·006	—0·0024	+ 0·005
2584	2688	309	7206	...	13 Delphini ..... *seq.*	5·5	93·23	6	20 42 21·387	+ 2·9729	+ 0·003	+0·0007	— 0·002
2585	...	...	...	28529	Brisbane 6918	7¾*	94·73	6	20 42 40·207	+ 4·9656	— 0·087	...	...
2586	...	...	...	...	C.Z. XX. 1368	8½*	88·62	2	20 42 49·480	+ 3·6286	— 0·019	...	...
2587	2692	323	7213	...	54 Cygni (as one mass)... λ	4·6	...	...	20 43 7	+ 2·3347	+ 0·003	—0·0011	...
2588	...	...	...	...	B.D. — 8° No. 5490.....	9·5†	94·75	1	20 44 28·501	+ 3·2250	— 0·008	...	...
2589	...	...	...	...	C.Z. XX. 1439	9*	88·68	3	20 44 49·600	+ 3·5974	— 0·018	...	...
2590	...	...	...	...	B.D. — 20° No. 6049 ...	9·7†	91·72	3	20 44 56·480	+ 3·4496	— 0·014	...	...

2559. τ^1 Capricorni in B.A.C.
2579, 2580. B.A.C. assigns the Flamsteed number and the letter to the latter star only.
2583. k Aquarii in C.G.A.

No.	Mean Date. 1800+	No. of Obs.	Mean Dec. 1890·0.	Sec. of Final Dec.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_δ.	Corr. for μ_δ to 1890·0.	Fallows and Henderson.	Johnson.	Cape Catalogues. 1840.	1850.	1860.	1880.	1885.	Melbourne, 1870 and 1880.
			° ′ ″	″	″	″	″	″								
2556	90·63	13	− 47 40 27·42	27·32	+ 12·196	+ 0·49	+ 0·075	−0·05	335*	516	2630	4079	968	10981	1411	1046
2557	88·65	4	− 34 32 19·23	19·34	+ 12·231	+ 0·43	...	...	...	...	...	...	...	...	...	...
2558	87·70	4	− 21 29 16·08	16·34	+ 12·271	+ 0·40	...	...	...	...	...	...	...	...	...	...
2559*	89·21	6	− 15 31 39·94	40·04	+ 12·289	+ 0·38	− 0·036	−0·03	337	...	...	4087	...	...	...	...
2560	92·65	32	− 24 36 40·38	40·53	+ 12·316	+ 0·40	...	...	...	...	...	4089	...	10995	...	...
2561†	90·67	12	+ 14 12 46·23	46·01	+ 12·373	+ 0·32	− 0·031	+0·02	...	...	...	...	...	...	1413	...
2562	90·06	12	− 33 49 13·03	13·03	+ 12·444	+ 0·43	0·00	0·00	...	...	...	...	...	11008	...	...
2563	91·13	8	+ 20 48 55·32	55·12	+ 12·456	+ 0·30	+ 0·002	0·00	...	...	...	...	...	...	...	...
2564	90·89	12	+ 9 41 57·21	57·02	+ 12·468	+ 0·33	+ 0·012	−0·01	...	...	...	...	...	...	1417	...
2565	88·78	49	− 18 31 31·84	31·87	+ 12·469	+ 0·38	+ 0·013	+0·02	...	520	2635	4101	974	...	1416	*1017*
2566	93·55	11	+ 15 31 27·96	27·60	+ 12·520	+ 0·31	− 0·002	+0·01	...	...	...	...	...	11020	...	*1019*
2567	87·78	12	− 66 35 50·46	50·55	+ 12·554	+ 0·62	− 0·013	−0·03	338*	518	2634	4098	975	11021	1418	1049*
2568	87·69	4	− 21 12 6·75	7·00	+ 12·563	+ 0·39	...	...	...	...	...	...	...	...	...	...
2569	89·49	14	− 52 18 46·98	46·96	+ 12·617	+ 0·50	− 0·072	−0·04	...	...	2636	4111	...	11027	...	...
2570	91·50	12	+ 44 53 16·17	15·58	+ 12·734	+ 0·22	+ 0·003	0·00	*168*	...	2640	4118	981	11042	1419	1055*
2571	89·63	12	+ 14 40 48·86	48·68	+ 12·777	+ 0·31	− 0·036	−0·01	...	...	...	...	...	...	1421	...
2572	94·64	3	− 9 40 38·61	38·87	+ 12·812	+ 0·36	...	...	...	...	...	...	...	...	...	...
2573	92·45	13	− 69 10 37·39	37·37	+ 12·814	+ 0·64	...	...	...	...	...	4115	980	11045	...	1054
2574	88·20	10	− 25 39 56·05	56·13	+ 12·862	+ 0·39	− 0·157	−0·28	340	521	2641	4122	983	11053	...	*1023*
2575	92·65	33	− 21 54 47·86	48·02	+ 12·875	+ 0·38	− 0·015	+0·04	...	...	...	4123	...	...	...	...
2576	92·71	6	+ 41 49 23·12	22·63	+ 12·885	+ 0·24	...	...	...	...	...	...	...	...	...	...
2577	87·70	4	− 20 25 54·13	54·39	+ 12·912	+ 0·38	...	...	...	...	...	...	...	...	...	...
2578	88·65	11	− 44 23 18·92	19·01	+ 12·958	+ 0·45	− 0·109	−0·15	...	...	...	4127	...	11062	...	...
2579*	90·65	1	+ 15 43 41·40	41·32	+ 12·993	+ 0·30	− 0·197	+0·13	...	...	...	...	...	...	...	...
2580*	90·20	10	+ 15 43 41·34	41·18	+ 12·994	+ 0·30	− 0·196	+0·04	...	...	...	...	...	...	1422	...
2581	87·70	30	− 9 53 52·71	52·89	+ 13·005	+ 0·36	− 0·027	−0·06	341	522	...	4133	...	11066	1423	*1024*
2582	91·54	13	+ 33 33 31·10	30·71	+ 13·007	+ 0·26	+ 0·335	−0·52	...	...	...	...	...	...	...	...
2583*	90·57	7	− 5 25 47·77	48·00	+ 13·019	+ 0·35	− 0·027	+0·02	...	523	...	4135	...	...	...	...
2584†	93·23	6	+ 5 36 16·49	16·23	+ 13·047	+ 0·32	− 0·001	0·00	...	...	2645	...	...	...	...	...
2585	94·73	6	− 61 49 26·94	27·08	+ 13·068	+ 0·54	...	...	...	...	...	...	...	11070	...	...
2586	88·62	2	− 28 45 15·08	15·19	+ 13·078	+ 0·40	...	...	...	...	...	...	...	...	...	...
2587†	91·25	12	+ 36 5 12·03	11·67	+ 13·097	+ 0·25	+ 0·018	−0·02	...	...	2649	...	...	...	1426	...
2588	94·75	1	− 8 36 42·20	42·47	+ 13·188	+ 0·34	...	...	...	...	...	...	...	...	...	...
2589	88·68	3	− 27 33 37·25	37·39	+ 13·210	+ 0·39	...	...	...	...	...	...	...	...	...	...
2590	91·72	3	− 20 33 48·41	48·33	+ 13·218	+ 0·37	...	...	...	...	...	...	...	...	...	...

2561. Very close binary ; $3^m·9$. $5^m·4$. Observed as one mass.
2587. Very close binary ; $4^m·8$, $6^m·5$. Observed as one mass.

2584. $5^m·5$, $9^m·5$ 1″·2 195°. Brighter star observed.

No.	Bradley or Lacaille.	Piazzi. 1800.	B.A.C. 1850.	C.G.A. 1875.	Star's Name.	Mag.	Mean Date. 1800+	No. of Obs.	Mean R.A. 1890·0.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_a.	Corr. for μ_a to 1890·0.
									h m s	s	s	s	s
2591	8597	...	7224	28595	Lacaille 8597	6·8*	88·67	3	20 44 59·280	+ 3·6161	— 0·019	...	...
2592	8596	...	...	28594	Lacaille 8596	7·1	88·68	3	20 44 59·440	+ 3·6493	— 0·020	...	...
2593	...	...	...	...	C.P.D. — 20° No. 8027..	10½‡	87·73	3	20 45 13·971	+ 3·4461	— 0·014	...	...
2594†	2690*	328	7227	28598	18 Capricorni.....ω	4·4	88·46	12	20 45 15·369	+ 3·5914	— 0·018	—0·0030	— 0·005
2595	2694	336	7229	28612	4 Aquarii (as one mass)..	6·2*	89·50	5	20 45 35·736	+ 3·1786	— 0·007	+0·0043	+ 0·002
2596†	8584	...	7228	28615	Indi .....β	3·7	90·59	12	20 46 12·454	+ 4·7289	— 0·073	—0·0017	+ 0·001
2597†	8606	334	7234	28625	Lacaille 8606	5·3	90·89	12	20 46 30·653	+ 3·9176	— 0·031	0·000	0·000
2598	8612	339	7237	28629	Lacaille 8612	*	...	...	20 46 34	+ 3·5214	— 0·016	+0·0050†	...
2599	2696	345	7239	28640	6 Aquarii .....μ	4·8	88·83	12	20 46 43·222	+ 3·2377	— 0·008	+0·0008	+ 0·001
2600	...	...	...	...	B.D. + 32° No. 3980 ...	5·8	89·38	6	20 49 26·480	+ 2·4305	+ 0·003	...	...
2601	...	372	...	...	Piazzi XX. 372	7·0†	88·22	6	20 49 33·143	+ 3·0485	— 0·004	...	...
2602	...	...	...	...	B.D. — 6° No. 5627	9·1†	94·66	3	20 49 37·221	+ 3·1842	— 0·007	...	...
2603	2709	379	7256	...	32 Vulpeculæ	5·1	89·85	13	20 49 52·258	+ 2·5561	+ 0·003	—0·0016	0·000
2604	...	...	...	...	B.D. — 20° No. 6073 ...	9·1†	87·71	4	20 50 1·271	+ 3·4312	— 0·014	...	...
2605	8535	...	...	28677	Lacaille 8535 .....*seq.*	8*	93·16	11	20 50 8·774	+ 9·3804	— 0·668	...	...
2606	8621	370	7252	28702	Lacaille 8621	5·9	88·65	4	20 50 15·170	+ 3·5681	— 0·018	+0·005	+ 0·007
2607	2708	382	7258	...	17 Delphini	5·4	90·59	7	20 50 24·166	+ 2·8398	0·000	+0·0009	— 0·001
2608	...	...	...	...	B.D. — 22° No. 5572 ...	7·5†	...	...	20 50 31	+ 3·4784	— 0·010	...	...
2609	...	...	...	...	B.D. + 8° No. 4571	7·0†	91·79	6	20 50 44·467	+ 2·9196	— 0·002	...	...
2610	...	...	...	28712	C.G.A. 28712	8*	88·67	4	20 50 51·420	+ 3·5153	— 0·016	...	...
2611	...	...	...	...	Lalande 40533	6·8†	...	...	20 50 53	+ 2·0621	+ 0·003	...	...
2612	...	...	...	28663	C.G.A. 28663	7·0	95·41	15	20 51 4·064	+15·953	— 2·508	...	...
2613†	8570	...	7250	28706	Octantis.....*seq.* α	5·3	86·48	17	20 51 21·962	+ 7·4729	— 0·359	—0·0081	— 0·029
2614	...	...	...	...	B.D. — 19° No. 5980 ...	9·2†	91·71	3	20 53 3·520	+ 3·4192	— 0·014	...	...
2615	2724	410	7277	...	58 Cygni .....ν	4·1	87·67	3	20 53 4·263	+ 2·2339	+ 0·004	0·0000	0·000
2616	8640	...	...	28777	Lacaille 8640	7·1	88·31	7	20 54 24·552	+ 3·6350	— 0·021	...	...
2617	...	...	...	28714	C.G.A. 28714	7·4	95·48	12	20 54 26·966	+17·230	— 3·090	...	...
2618†	2714*	403	7280	28782	1 Piscis Australis	4·8	89·21	12	20 54 32·539	+ 3·6933	— 0·023	—0·0017	— 0·001
2619	8474	...	...	28728	Lacaille 8474	7·8	95·45	12	20 54 33·142	+14·596	— 2·097	...	...
2620†	8653	418	7292	28821	Microscopii .....ζ	5·5	87·31	12	20 55 56·154	+ 3·8531	— 0·030	—0·0031	— 0·008
2621	...	423	7296	28826	Piazzi XX. 423	7·0*	88·26	6	20 55 59·825	+ 3·2791	— 0·010	—0·001	— 0·002
2622	8615	...	7272	28806	Lacaille 8615	6·8*	86·51	9	20 56 4·258	+ 7·1235	— 0·324	...	...
2623	...	...	...	...	B.D. — 4° No. 5345	9·1†	94·68	3	20 57 53·810	+ 3·1449	— 0·006	...	...
2624	...	...	...	...	B.D. — 22° No. 5600 ...	9·3†	88·63	3	20 58 3·310	+ 3·4696	— 0·016	...	...
2625	2729	436	7305	28879	22 Capricorni .....η	5·2	85·74	2	20 58 8·682	+ 3·4248	— 0·014	—0·0050	— 0·021

2618. γ Microscopii in C.G.A. and *Monthly Notices*, Vol. XLVII.

No.	Mean Date. 1800+	No. of Obs.	Mean Dec. 1890·0.	Sec. of Final Dec.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_δ.	Corr. for μ_δ to 1890·0.	Fallows and Henderson.	Johnson.	Cape Catalogues. 1840.	1850.	1860.	1880.	1885.	Melbourne, 1870 and 1880.
			° ′	″	″	″	″	″								
2591	88·67	3	− 28 24 21·20	21·34	+ 13·221	+ 0·39	...	...	...	...	...	4145	...	11089	...	...
2592	88·68	3	− 29 50 57·46	57·61	+ 13·221	+ 0·40	...	...	...	...	...	...	...	11090	...	...
2593*	88·73	3	− 20 24 20·89	21·15	+ 13·237	+ 0·37	...	...	...	...	...	...	...	...	...	...
2594	88·46	12	− 27 19 48·16	48·31	+ 13·238	+ 0·39	− 0·007	−0·01	...	...	...	4148	986	11093	1428	...
2595†	89·03	6	− 6 2 15·11	15·25	+ 13·261	+ 0·34	+ 0·002	0·00	...	...	...	4150	...	...	...	...
2596	90·59	12	− 58 52 5·93	5·88	+ 13·301	+ 0·51	− 0·012	+0·01	344	525	2651	4149	987	11097	1429	1060
2597	90·89	12	− 40 13 15·72	15·69	+ 13·321	+ 0·42	− 0·107	+0·10	...	...	2652	4153	...	11101	...	...
2598†	92·59	9	− 24 11 41·46	41·68	+ 13·324	+ 0·38	− 0·087†	+0·23	...	...	...	4156	...	11102	...	...
2599	89·00	14	− 9 23 44·10	44·19	+ 13·334	+ 0·35	− 0·031	−0·03	...	526	2653	4158	...	11107	1430	...
2600	89·38	6	+ 33 1 11·18	10·83	+ 13·512	+ 0·26	...	...	...	...	...	...	...	...	...	...
2601	88·22	6	+ 1 23 41·66	41·42	+ 13·519	+ 0·32	...	...	...	...	...	...	...	...	...	...
2602	94·66	3	− 6 27 12·98	13·26	+ 13·523	+ 0·34	...	...	...	...	...	...	...	...	...	...
2603	90·25	12	+ 27 38 22·06	21·87	+ 13·539	+ 0·27	− 0·002	0·00	...	...	...	...	994	11131	1432	1063*
2604	87·71	4	− 19 59 54·14	54·40	+ 13·549	+ 0·36	...	...	...	...	...	...	...	...	...	...
2605†	92·97	12	− 81 7 27·20	27·14	+ 13·557	+ 1·00	...	...	...	...	...	...	...	11128	...	...
2606	88·65	4	− 26 42 54·17	54·30	+ 13·564	+ 0·38	− 0·08	−0·11	...	...	2656	4168	...	11132	...	...
2607	90·59	7	+ 13 18 7·51	7·42	+ 13·573	+ 0·30	+ 0·001	0·00	...	...	2657	...	...	...	...	...
2608	92·53	9	− 22 25 36·28	36·59	+ 13·581	+ 0·35	...	...	...	...	...	...	...	...	...	...
2609	91·79	6	+ 8 50 28·62	28·47	+ 13·595	+ 0·31	...	...	...	...	...	...	...	...	...	...
2610	88·67	4	− 24 16 2·27	2·42	+ 13·603	+ 0·37	...	...	...	...	...	...	...	...	...	...
2611	94·22	6	+ 45 48 43·52	42·67	+ 13·604	+ 0·22	...	...	...	...	...	...	...	...	...	...
2612	95·41	15	− 85 38 33·57	33·53	+ 13·615	+ 1·70	...	...	...	...	...	...	...	11124	...	...
2613†	86·69	43	− 77 26 29·78	29·84	+ 13·635	+ 0·79	− 0·370	−1·22	...	...	2654	4166	...	11135	1433	1062*
2614	91·71	3	− 19 36 6·25	6·18	+ 13·744	+ 0·36	...	...	...	...	...	...	...	...	...	...
2615	89·62	13	+ 40 44 37·69	37·24	+ 13·744	+ 0·23	+ 0·001	0·00	...	...	2661	...	998	...	...	*1030*
2616	88·31	7	− 30 9 22·57	22·77	+ 13·830	+ 0·38	...	...	...	...	...	...	...	11153	...	...
2617	95·48	12	− 86 5 20·37	20·34	+ 13·830	+ 1·81	...	...	...	...	...	...	...	11139	...	*1029*
2618*	89·21	12	− 32 41 13·68	13·75	+ 13·838	+ 0·38	0·000	0·00	...	...	2662	4177	...	11155	...	*1031*
2619	95·45	12	− 85 12 3·03	3·00	+ 13·838	+ 1·52	...	...	...	...	...	...	...	11143	...	...
2620	87·31	12	− 39 3 36·53	36·70	+ 13·926	+ 0·40	− 0·137	−0·37	...	...	2665	4185	1000	11171	...	1065
2621	88·26	6	− 12 7 34·46	34·71	+ 13·930	+ 0·34	− 0·02	−0·03	...	...	...	4188	...	...	...	...
2622	86·54	10	− 76 38 59·00	59·09	+ 13·934	+ 0·74	...	...	...	...	...	4175	...	11168	...	...
2623	94·68	3	− 4 20 31·48	31·77	+ 14·049	+ 0·32	...	...	...	...	...	...	...	...	...	...
2624	88·63	3	− 22 36 48·57	48·70	+ 14·059	+ 0·35	...	...	...	...	...	...	...	...	...	...
2625	92·53	11	− 20 17 21·97	22·28	+ 14·064	+ 0·35	− 0·037	+0·09	348	527	2669	4193	1002	11187	1436	...

2593. Magnitude from Cape observations.

2595. Very close binary; $6^m·5$, $7^m·8$. Observed as one mass.

2598. $6^m·8$, $8^m·9$ 2″·3 216° Fainter star probably not seen. Proper Motion from Newcomb's *Catalogue of* 1098 *Standard Stars.*

2605. 8^m, 10^m 4″·6 247° 1890·7. Brighter star observed.

2613. $5^m·3$, $9^m·3$ 1″·9 302° 1851·8. Brighter star observed.

No.	Bradley or Lacaille.	Piazzi. 1800.	B.A.C. 1850.	C.G.A. 1875.	Star's Name.	Mag.	Mean Date. 1800+	No. of Obs.	Mean R.A. 1890·0.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_α.	Corr. for μ_α to 1890·0.
									h m s	s	s	s	s
2626	8667	...	...	28877	Lacaille 8667	7¼*	88·03	6	20 58 10·826	+ 3·8080	— 0·029	...	...
2627	2740	455	7320	...	Bradley 2740	6·2	...	...	20 58 49	+ 2·3241	+ 0·004	—0·0003	...
2628	..	...	...	...	✳	9·9‡	91·70	3	20 59 18·200	+ 3·4049	— 0·014	...	...
2629	2733	451	7322	28921	23 Capricorni.....θ	4·3	86·18	11	20 59 45·746	+ 3·3739	— 0·013	+0·0040	+ 0·015
2630	8690	...	7327	28949	Lacaille 8690	7·0*	88·66	4	21 0 40·470	+ 3·4841	— 0·016	...	...
2631†	2737*	456	7328	28951	24 Capricorni .....A	4·6	89·27	11	21 0 41·607	+ 3·5209	— 0·018	—0·0049	— 0·004
2632	2746	472	7333	...	62 Cygni .....ξ	3·7	...	...	21 0 56	+ 2·1793	+ 0·004	+0·0006	...
2633	8679	...	...	28952	Lacaille 8679	7¾*	90·34	5	21 0 58·230	+ 4·4543	— 0·064	...	...
2634	...	...	...	28969	C.G.A. 28969	7½*	88·66	4	21 1 35·440	+ 3·4667	— 0·016	...	...
2635	2744	475	7336	...	61 Cygni .....*pr.*	5·0†	...	...	21 1 58	+ 2·3348	+ 0·004	+0·3444	...
2636	2745	476	7337	...	61 Cygni .....*seq.*	5·3†	...	...	21 1 59	+ 2·3350	+ 0·004	+0·3497	...
2637	...	...	...	...	C.P.D. — 33° No. 6047..	9·1‡	87·71	3	21 2 5·601	+ 3·6973	— 0·025	...	...
2638	...	...	...	...	C.P.D. —33° No. 6052..	9·2‡	87·70	3	21 2 43·181	+ 3·6937	— 0·025	...	...
2639	2750	491	7345	...	63 Cygni .....f^2	5·1	...	...	21 2 49	+ 2·0640	+ 0·004	+0·0013	...
2640†	8668	...	7331	28995	Pavonis .....o	5·0	92·43	8	21 3 0·869	+ 5·7175	— 0·171	+0·002	— 0·005
2641	...	...	...	29013	Lalande 40966.....	7·0*	89·22	6	21 3 9·500	+ 3·1709	— 0·007	...	...
2642	2743	478	7343	29014	27 Capricorni	6·2	...	...	21 3 15	+ 3·4302	— 0·015	+0·0070	...
2643	...	...	...	...	B.D. — 19° No. 6032....	9·0†	91·72	3	21 3 18·570	+ 3·3908	— 0·014	...	...
2644*	2747	485	7344	29024	13 Aquarii .....ν	4·6	89·72	43	21 3 36·117	+ 3·2671	— 0·010	+0·0043	+ 0·001
2645	...	...	...	...	B.D. — 19° No. 6038 ...	8·7†	87·74	3	21 4 10·031	+ 3·3903	— 0·014	...	...
2646	2753*	12	7357	29093	3 Piscis Australis	5·7	85·74	2	21 6 45·883	+ 3·5614	— 0·020	+0·0061	+ 0·026
2647	8734	...	7359	29097	Lacaille 8734	7¼*	...	...	21 6 54	+ 3·5056	— 0·018	...	...
2648	...	...	...	...	B.D. — 18° No. 5886 ...	8·3†	88·63	3	21 7 37·340	+ 3·3696	— 0·013	...	...
2649†	8727	...	7360	29117	Lacaille 8727	5·8	89·47	12	21 7 54·218	+ 4·3151	— 0·059	—0·0029	— 0·002
2650	8551	...	...	29060	Lacaille 8551	6·5	95·42	15	21 8 12·736	+14·102	— 2·175	...	...
2651	2760	35	7368	...	64 Cygni .....ζ	3·5	88·17	12	21 8 15·237	+ 2·5514	+ 0·004	—0·0015	— 0·003
2652	...	...	...	29150	Lalande 41191.....	6·4	88·92	6	21 8 57·363	+ 3·3639	— 0·013	...	...
2653	2761	38	7372	...	7 Equulei (as one mass)δ	4·6	92·55	11	21 9 7·386	+ 2·9196	— 0·001	+0·0012	— 0·003
2654	2758	33	7371	29161	28 Capricorni.....ϕ	5·3	...	...	21 9 22	+ 3·4222	— 0·015	—0·0016	...
2655	8733	...	7369	29168	Lacaille 8733	6·9*	93·45	6	21 9 59·322	+ 4·7569	— 0·091	+0·073†	— 0·252
2656*	2764	47	7380	...	8 Equulei .....a	4·1	88·55	22	21 10 19·496	+ 2·9969	— 0·003	+0·0021	+ 0·003
2657	2767	54	7385	...	65 Cygni.....*pr.*τ	3·9	...	...	21 10 24	+ 2·3789	+ 0·005	+0·0121	...
2658†	2762*	46	7386	29200	4 Piscis Australis	4·8	88·88	10	21 11 16·023	+ 3·6473	— 0·024	+0·0028	+ 0·003
2659	8754	...	...	29207	Lacaille 8754	7·4	94·71	6	21 11 39·734	+ 4·1431	— 0·050	...	...
2660	8713	...	7376	29214	Lacaille 8713	8¼*	94·72	4	21 12 41·078	+ 6·9320	— 0·345	...	...

2658. ε Microscopii in C.G.A.

No.	Mean Date. 1800+	No. of Obs.	Mean Dec. 1890·0.	Sec. of Final Dec.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_δ.	Corr. for μ_δ to 1890·0.	Fallows and Henderson.	Johnson.	Cape Catalogues. 1840.	1850.	1860.	1880.	1885.	Melbourne, 1870 and 1880.
			° ′ ″	″	″	″	″	″								
2626	88·03	6	− 37 39 52·79	52·95	+14·067	+ 0·39	...	...	...	...	...	...	...	11186	...	...
2627	90·69	7	+ 38 13 21·59	21·27	+14·105	+ 0·24	+ 0·02	− 0·01	...	...	...	...	...	...	...	...
2628*	91·70	2	− 19 19 13·26	13·21	+14·136	+ 0·35	...	...	...	...	...	...	...	...	...	...
2629	87·27	11	− 17 40 9·93	10·11	+14·165	+ 0·34	− 0·054	− 0·15	...	...	2673	4203	1006	11204	1437	*1035*
2630	88·66	4	− 23 35 23·86	24·00	+14·221	+ 0·35	...	...	...	...	...	4207	...	11213	...	...
2631	89·27	11	− 25 26 42·31	42·38	+14·222	+ 0·36	− 0·043	− 0·03	...	...	...	4206	1007	11214	...	...
2632	93·27	12	+ 43 29 21·53	20·89	+14·236	+ 0·22	− 0·008	+ 0·03	...	...	2677	...	1008	...	1438	*1036*
2633	90·41	6	− 55 44 9·12	9·06	+14·239	+ 0·45	...	...	...	...	...	...	...	11217	...	...
2634	88·66	3	− 22 46 34·19	34·34	+14·278	+ 0·35	...	...	...	...	...	...	...	...	...	...
2635†	93·25	12	+ 38 12 42·82	42·29	+14·298	+ 0·23	+ 3·230	−10·50	*165*	...	2679	4213	1011	...	1439	1072*
2636†	94·73	6	+ 38 12 34·32	33·71	+14·300	+ 0·23	+ 3·033	−14·35	...	...	...	4214	...	...	...	1073
2637*	87·71	3	− 33 42 15·17	15·40	+14·308	+ 0·37	...	...	...	...	...	...	...	...	...	...
2638*	87·70	4	− 33 37 32·78	33·01	+14·347	+ 0·37	...	...	...	...	...	...	...	...	...	...
2639	93·47	8	+ 47 12 25·48	24·59	+14·352	+ 0·20	− 0·014	+ 0·05	...	...	...	...	...	...	...	...
2640	92·43	8	− 70 34 26·59	26·59	+14·365	+ 0·58	− 0·039	+ 0·09	...	...	2676	4210	1009	11230	...	1074
2641	89·22	6	− 6 1 29·13	29·27	+14·374	+ 0·32	...	...	...	..	...	...	...	...	...	...
2642	92·53	11	− 20 59 51·62	51·92	+14·379	+ 0·34	− 0·131	+ 0·33	...	...	...	4220	...	...	...	...
2643	91·72	3	− 18 51 54·30	54·23	+14·383	+ 0·34	...	...	...	...	...	...	...	...	...	...
2644	89·94	51	− 11 48 59·89	60·04	+14·401	+ 0·32	− 0·007	0·00	349	528	2681	4221	1014	11238	1441	*1038*
2645	87·74	3	− 18 54 18·31	18·57	+14·435	+ 0·34	...	...	...	...	...	...	...	...	1442	...
2646	...	...	− 28 4	...	+14·592	+ 0·35	− 0·109	...	...	...	...	4229	...	11256	1443	...
2647	92·67	22	− 25 17 49·12	49·26	+14·600	+ 0·34	...	...	...	...	...	4231	...	11258	...	...
2648	88·63	3	− 18 1 3·46	3·60	+14·643	+ 0·33	...	...	...	...	...	...	...	...	...	...
2649	89·47	12	− 53 43 3·40	3·41	+14·660	+ 0·42	− 0·04	− 0·02	...	...	2684	4232	...	11265	...	...
2650	95·42	15	− 85 16 44·52	44·50	+14·676	+ 1·40	...	...	...	...	...	...	...	11253	...	...
2651	88·17	12	+ 29 46 33·82	33·50	+14·681	+ 0·25	− 0·066	− 0·12	*162*	...	2686	...	1019	11269	1444	1076*
2652	88·92	6	− 17 47 58·86	59·01	+14·722	+ 0·33	..	...	...	...	...	...	...	...	...	...
2653†	92·40	12	+ 9 33 40·82	40·58	+14·732	+ 0·28	− 0·289	+ 0·69	...	...	...	...	...	11274	1447	...
2654	92·53	11	− 21 6 27·91	28·22	+14·747	+ 0·33	+ 0·004	− 0·01	...	...	...	4239	1020	...	...	...
2655*	93·45	6	− 61 47 57·10	57·22	+14·784	+ 0·46	− 0·44†	+ 1·52	...	...	...	4237	...	11277	...	1077
2656	87·86	22	+ 4 47 36·41	36·20	+14·804	+ 0·29	− 0·078	− 0·17	...	...	...	...	...	11283	1448	*1043*
2657†	92·75	8	+ 37 34 34·92	34·44	+14·808	+ 0·23	+ 0·460	− 1·27	...	...	...	...	...	...	1449	...
2658*	88·88	10	− 32 37 53·83	53·96	+14·859	+ 0·35	− 0·036	− 0·04	...	530	2689	4248	1022	11290	...	*1044*
2659	94·71	6	− 50 4 22·77	22·95	+14·883	+ 0·40	...	...	...	...	...	...	...	11294	...	...
2660	94·51	12	− 76 59 33·42	33·52	+14·942	+ 0·67	...	...	...	...	2687	4243	...	11300	...	...

2628. Magnitude from Cape observations.
2637, 2638. Magnitude from *Cordoba Durchmusterung*.
2655. Proper Motion from *Cincinnati Publications*, No. 12.

2635, 2636. Binary.
2653. Very close binary; $5^m{\cdot}1$, $5^m{\cdot}6$. Observed as one mass.
2657. Very close binary; $3^m{\cdot}9$, $10^m{\cdot}0$. Brighter star observed.

No.	Bradley or Lacaille.	Piazzi. 1800.	B.A.C. 1850.	C.G.A. 1875.	Star's Name.	Mag.	Mean Date, 1800+	No. of Obs.	Mean R.A. 1890·0.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_α.	Corr. for μ_α to 1890·0.
									h m s	s	s	s	s
2661	2769	74	7398	...	67 Cygni ..... σ	4·3	88·00	1	21 13 5·590	+ 2·3536	+ 0·005	—0·0009	— 0·002
2662	2770	76	7399	...	66 Cygni ..... υ	4·4	94·11	7	21 13 23·719	+ 2·4634	+ 0·005	—0·0005	+ 0·002
2663†	8773	64	7397	29248	Microscopii ..... θ^1	5·0	92·13	9	21 13 43·375	+ 3·8511	— 0·034	+0·0055	— 0·012
2664	...	...	...	...	Lalande 41428.....	*	94·07	5	21 14 16·778	+ 2·9314	— 0·001	...	...
2665	...	...	...	29271	Lalande 41404.....	8*	...	...	21 14 24	+ 3·4451	— 0·016	...	...
2666	8757	...	...	29274	Lacaille 8757	7·4*	94·69	6	21 15 0·192	+ 5·3339	— 0·148	...	...
2667	...	...	...	...	Lalande 41476.....	6·0	91·87	6	21 15 14·143	+ 2·7246	+ 0·002	...	...
2668	8787	78	...	29281	Lacaille 8787	6·7	89·91	11	21 15 17·233	+ 3·5732	— 0·022	...	...
2669*	2771	81	7404	29282	16 Aquarii	5·9	85·74	2	21 15 18·321	+ 3·1499	— 0·007	—0·0031	— 0·013
2670	...	...	7410	...	34 Vulpeculæ	5·8	86·77	2	21 16 5·850	+ 2·6933	+ 0·003	...	...
2671	...	...	...	...	Lalande 41500.....	7·3†	89·76	6	21 16 14·015	+ 3·0588	— 0·004	...	...
2672	...	...	...	...	B.D. — 15° No. 5965 ...	9·3†	88·66	3	21 16 29·880	+ 3·3108	— 0·012	...	...
2673	2780	100	7418	...	1 Pegasi	4·3	89·73	11	21 16 59·932	+ 2·7663	+ 0·002	+0·0064	+ 0·002
2674	...	...	...	...	B.D. — 15° No. 5972 ...	8·8†	88·67	3	21 17 7·440	+ 3·3110	— 0·012	...	...
2675	...	...	...	...	Lalande 41514	8·5†	86·78	2	21 17 8·911	+ 3·3925	— 0·015	...	...
2676†	8778	...	7409	29309	Pavonis ..... γ	4·2	91·19	8	21 17 20·355	+ 5·0167	— 0·120	+0·0110	— 0·013
2677†	8792	...	7423	29331	Indi..... γ	6·2	88·83	12	21 18 24·410	+ 4·3161	— 0·064	—0·0029	— 0·003
2678	8813	...	7436	29359	Lacaille 8813	6·8*	...	...	21 19 29	+ 3·4614	— 0·018	...	...
2679*	2785*	118	7445	29382	34 Capricorni ..... ζ	3·8	87·09	11	21 20 23·211	+ 3·4345	— 0·017	—0·0025	— 0·007
2680	...	...	...	...	C.Z. XXI. 608	8½*	87·70	4	21 20 24·591	+ 3·6170	— 0·024	...	...
2681	...	...	...	...	Lalande 41699	7·3†	89·39	6	21 20 33·895	+ 2·5978	+ 0·004	...	...
2682	2791	136	7453	...	69 Cygni	5·8	...	...	21 21 17	+ 2·4479	+ 0·006	—0·0018	...
2683	8822	...	...	29432	Lacaille 8822	7·1*	89·08	6	21 22 45·268	+ 3·8900	— 0·039	...	...
2684	8827	...	...	29448	Lacaille 8827	7¼*	89·39	12	21 23 1·008	+ 3·7373	— 0·031	...	...
2685	...	145	7463	29464	Piazzi XXI. 145	6·6*	85·74	2	21 23 49·102	+ 3·3728	— 0·014	+0·001	+ 0·004
2686	8832	148	7467	29469	Lacaille 8832	7*	...	...	21 24 5	+ 3·4768	— 0·019	...	...
2687	2799	168	7480	...	71 Cygni ..... g	5·3	88·75	1	21 25 23·270	+ 2·2061	+ 0·006	+0·0023	+ 0·003
2688	6460	...	7020	29042	Octantis..... B	6·6	91·37	50	21 25 28·548	+78·013	—104·305	—0·024†	+ 0·033
2689	...	...	...	...	Lalande 41897.....	6·7†	...	...	21 25 33	+ 2·2103	+ 0·006	...	...
2690*	2797	162	7478	29491	22 Aquarii ..... β	3·1	87·58	40	21 25 46·059	+ 3·1609	— 0·007	—0·0006	— 0·001
2691	...	...	...	...	W.B. (2) XXI. 602.....	6·7†	...	...	21 25 54	+ 2·2395	+ 0·006	...	...
2692	...	...	...	...	Lalande 41898	7·0†	93·95	5	21 26 6·058	+ 2·5633	+ 0·005	...	...
2693†	8838	...	...	29495	Lacaille 8838	5·6	93·28	8	21 26 15·714	+ 3·9133	— 0·041	—0·005	+0·016
2694	8840	...	...	29503	Lacaille 8840	7·0*	86·74	11	21 26 47·894	+ 3·9640	— 0·045	...	...
2695	...	...	...	...	C.P.D. — 31° No. 6567..	9·2‡	87·74	3	21 27 59·001	+ 3·5807	— 0·024	...	...

2679. Fundamental star for Southern Zones.

2688. B.A.C. gives no letter.

No.	Mean Date. 1800+	No. of Obs.	Mean Dec. 1890·0.	Sec. of Final Dec.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_δ.	Corr. for μ_δ to 1890·0.	Fallows and Henderson.	Johnson.	Cape Catalogues. 1840.	1850.	1860.	1880.	1885.	Melbourne, 1870 and 1880.
			° ′ ″	″	″	″	″	″								
2661	91·62	8	+ 38 56 2·16	1·63	+ 14·966	+ 0·22	— 0·013	+0·02	...	...	...	...	...	...	...	...
2662	94·11	7	+ 34 26 7·18	6·68	+ 14·984	+ 0·23	— 0·004	+0·02	...	...	...	...	...	...	...	...
2663	91·69	10	— 41 16 26·15	26·24	+ 15·003	+ 0·36	— 0·009	+0·02	...	...	2693	4257	...	11313	...	*1046*
2664†	94·19	6	+ 9 3 41·74	41·48	+ 15·035	+ 0·28	...	...	...	...	...	...	...	...	...	...
2665	92·67	20	— 22 51 6·23	6·37	+ 15·042	+ 0·33	...	...	...	...	...	...	...	...	...	...
2666	94·69	6	— 68 42 5·90	6·02	+ 15·077	+ 0·51	...	...	...	...	...	...	...	11322	...	...
2667	91·87	6	+ 21 33 37·92	37·77	+ 15·090	+ 0·26	...	...	...	...	...	...	...	...	...	...
2668	89·73	12	— 29 37 55·77	55·84	+ 15·093	+ 0·34	...	...	...	...	...	...	1026	11326	...	...
2669	...	...	— 5 2	...	+ 15·094	+ 0·30	+ 0·004	...	...	...	...	4259	...	...	1451	*1048*
2670	86·77	4	+ 23 23 35·08	34·75	+ 15·140	+ 0·25	...	...	...	...	...	...	...	...	...	...
2671	89·76	6	+ 0 53 40·17	40·03	+ 15·148	+ 0·29	...	...	...	...	...	...	...	...	...	...
2672	88·66	3	— 15 14 18·45	18·63	+ 15·163	+ 0·31	...	...	...	...	...	...	...	...	...	...
2673	89·54	13	+ 19 20 3·29	3·12	+ 15·191	+ 0·26	+ 0·075	+0·03	...	...	...	...	...	...	1452	...
2674	88·67	3	— 15 17 34·38	34·56	+ 15·199	+ 0·31	...	...	...	...	...	...	...	...	...	...
2675	86·78	2	— 20 9 0·19	0·33	+ 15·200	+ 0·32	...	...	...	...	...	...	...	...	1453	...
2676	91·19	8	— 65 51 46·62	46·47	+ 15·210	+ 0·47	+ 0·789	—0·94	353*	531	2694	4264	1029	11336	1454	1083
2677	88·93	11	— 55 8 5·87	5·93	+ 15·271	+ 0·40	+ 0·024	+0·03	...	533	2701	4272	1030	11347	...	1084
2678	92·59	8	— 24 17 43·56	43·78	+ 15·332	+ 0·32	...	...	...	...	...	4282	...	11357	...	...
2679*	90·49	36	— 22 53 13·89	14·04	+ 15·383	+ 0·32	+ 0·021	—0·01	356	534	2705	4288	1033	11360	1458	*1052*
2680	87·70	4	— 32 24 51·69	51·92	+ 15·384	+ 0·33	...	...	...	...	...	...	...	...	...	...
2681	89·39	6	+ 28 59 14·78	14·48	+ 15·393	+ 0·24	...	...	...	...	...	...	...	...	...	...
2682	91·74	8	+ 36 11 32·44	32·19	+ 15·433	+ 0·22	— 0·009	+0·02	...	...	...	...	...	...	...	...
2683	89·08	6	— 43 59 9·01	9·10	+ 15·515	+ 0·35	...	...	...	...	...	...	...	11373	...	1088
2684	89·45	14	— 38 10 13·54	13·61	+ 15·530	+ 0·34	...	...	...	...	...	...	...	11376	...	...
2685	...	...	— 19 38	...	+ 15·574	+ 0·30	— 0·04	...	...	...	...	4299	...	...	1459	...
2686	92·59	8	— 25 40 26·95	27·17	+ 15·589	+ 0·31	...	...	...	...	...	4301	...	11379	...	...
2687	91·78	9	+ 46 3 21·45	20·76	+ 15·660	+ 0·19	+ 0·096	—0·17	...	...	2710	...	...	...	...	...
2688*	90·91	74	— 89 21 43·03	42·97	+ 15·665	+ 7·09	— 0·034†	+0·03	313*	496	2590	4030	982	11301	1456	1067*
2689	94·19	6	+ 45 56 41·20	40·34	+ 15·669	+ 0·19	...	...	...	...	...	...	...	...	...	...
2690	88·27	49	— 6 3 16·89	17·06	+ 15·681	+ 0·28	— 0·001	0·00	357*	535	2707	4307	1037	11389	1460	1089*
2691	94·20	6	+ 45 0 42·66	41·86	+ 15·688	+ 0·20	...	...	...	...	...	...	...	...	...	...
2692	94·09	6	+ 31 28 26·39	25·94	+ 15·699	+ 0·23	...	...	...	...	...	...	...	...	...	...
2693	93·44	9	— 45 20 3·34	3·49	+ 15·708	+ 0·35	0·00	0·00	...	...	...	...	...	11390	...	1090
2694	86·74	11	— 47 5 45·34	45·46	+ 15·737	+ 0·35	...	...	...	...	...	...	...	11393	...	...
2695*	87·74	3	— 31 41 29·16	29·39	+ 15·801	+ 0·32	...	...	...	...	...	...	...	...	...	...

2664. $7^m·4$, $8^m·2$. $2''·5$ 184°. No note of duplicity.
2695. Magnitude from *Cordoba Durchmusterung.*

2688. Proper Motion determined for this Catalogue.

No.	Bradley or Lacaille.	Piazzi. 1800.	B.A.C. 1850.	C.G.A. 1875.	Star's Name.	Mag.	Mean Date. 1800+	No. of Obs.	Mean R.A. 1890·0.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_α.	Corr. for μ_α to 1890·0.
									h m s	s	s	s	s
2696	2800	180	7490	29544	37 Capricorni	5·9	...	...	21 28 40	+ 3·3803	— 0·015	—0·0026	...
2697	8851	184	7492	29554	Lacaille 8851	6·7*	89·74	6	21 28 58·400	+ 3·4360	— 0·018	...	...
2698	...	...	...	...	B.D. — 16° No. 5889	8·7†	87·74	3	21 29 8·711	+ 3·3187	— 0·013	...	...
2699†	8817	...	7481	29533	Octantis ν	3·7	93·16	19	21 29 13·046	+ 6·8783	— 0·389	+0·0043	— 0·014
2700†	8842	...	7486	29552	Lacaille 8842	6·3	92·10	10	21 29 15·600	+ 4·8506	— 0·116	—0·002	+ 0·004
2701	2803*	189	7502	29580	7 Piscis Australis	6·1	95·81	1	21 30 12·443	+ 3·6114	— 0·026	+0·0017	— 0·010
2702	2809	203	7505	...	72 Cygni	5·0	...	...	21 30 17	+ 2·4367	+ 0·007	+0·0095	...
2703	8845	...	...	29594	Lacaille 8845	8*	93·37	7	21 31 11·495	+ 5·4609	— 0·185	...	...
2704	8751	...	...	29562	Lacaille 8751	7·7	95·51	13	21 31 13·278	+11·4114	— 1·587	...	...
2705	2808	209	7514	29613	23 Aquarii ξ	4·8	89·00	8	21 31 53·788	+ 3·1906	— 0·008	+0·0058	+ 0·006
2706	8720	...	...	29568	Lacaille 8720	6·7	95·45	14	21 32 3·476	+13·386	— 2·369	...	...
2707	2818	222	7521	...	74 Cygni	5·1	87·33	3	21 32 32·210	+ 2·4014	+ 0·007	—0·0010	— 0·003
2708	8870	...	...	29632	Lacaille 8870	6·8*	89·91	7	21 32 43·737	+ 3·4949	— 0·020	+0·027†	+ 0·002
2709	8868	...	...	29643	Lacaille 8868	8*	86·74	11	21 33 25·534	+ 3·9973	— 0·049	...	...
2710	...	...	...	29650	Lalande 42160	6·3*	90·14	5	21 33 33·372	+ 3·2285	— 0·010	...	...
2711	8798	...	7498	29624	Octantis λ	*	86·48	19	21 33 58·637	+ 9·7655	— 1·090	0·000*	0·000
2712*	2815	223	7525	29656	40 Capricorni γ	3·8	89·68	28	21 33 59·771	+ 3·3180	— 0·013	+0·0119	+ 0·004
2713	...	...	...	...	W.B. XXI. 806	7·0†	90·43	6	21 35 15·568	+ 3·0256	— 0·003	...	...
2714	...	230	...	29671	Piazzi XXI. 230	7¼*	...	...	21 35 17	+ 3·3982	— 0·016	...	...
2715†	2819*	234	7539	29692	41 Capricorni	5·2	89·37	16	21 35 44·874	+ 3·4189	— 0·017	+0·0048	+ 0·003
2716	8877	...	7534	29695	Lacaille 8877	6·4*	92·71	8	21 36 9·644	+ 4·3203	— 0·075	...	...
2717	2831	252	7554	...	76 Cygni	6·3†	88·76	2	21 37 8·610	+ 2·4105	+ 0·008	—0·0014	— 0·002
2718†	2825*	250	7557	29737	9 Piscis Australis ι	4·4	89·98	12	21 38 23·622	+ 3·5856	— 0·026	—0·0007	0·000
2719	2835	260	7561	...	8 Pegasi ε	2·4	89·72	29	21 38 46·974	+ 2·9450	— 0·001	+0·0008	0·000
2720	2843	...	7566	...	79 Cygni	5·5	...	...	21 38 53	+ 2·4740	+ 0·008	+0·0016	...
2721	...	...	...	29748	Brisbane 7076	7¾*	86·73	6	21 39 5·664	+ 3·9261	— 0·047	...	...
2722	2834	258	7563	29752	46 Capricorni c^1	5·2	85·77	6	21 39 8·351	+ 3·2027	— 0·009	—0·0023	— 0·010
2723	2848	269	7571	...	10 Pegasi (as one mass) κ	4·2	93·81	12	21 39 39·826	+ 2·7119	+ 0·005	0·000	0·000
2724	...	...	...	...	B.D. — 15° No. 6060	9·0†	87·75	4	21 40 8·301	+ 3·2886	— 0·012	...	...
2725*	2844	270	7577	29774	48 Capricorni λ	5·4	87·77	3	21 40 36·793	+ 3·2331	— 0·010	+0·0009	+ 0·002
2726	2847	276	7580	29788	49 Capricorni δ	3·0	88·59	17	21 40 58·129	+ 3·3001	— 0·013	+0·0166	+ 0·023
2727	8916	...	...	29787	Lacaille 8916	7·5	90·74	6	21 41 3·638	+ 3·7121	— 0·034	...	...
2728	8912	...	7578	29785	Lacaille 8912	5·7	86·75	6	21 41 6·274	+ 3·9124	— 0·046	+0·016†	+ 0·052
2729	8908	...	7575	29789	Lacaille 8908	6·6*	91·61	6	21 41 12·478	+ 4·2348	0·071	...	...
2730†	8899	...	7572	29790	Indi o	5·6	93·56	9	21 41 28·232	+ 5·1759	— 0·166	—0·0117	+ 0·042

2722. c Capricorni in C.G.A.

No.	Mean Date. 1800+	No. of Obs.	Mean Dec. 1890·0.	Sec. of Final Dec.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion, μ_δ.	Corr. for μ_δ to 1890·0.	Fallows and Henderson.	Johnson.	Cape Catalogues. 1840.	1850.	1860.	1880.	1885.	Melbourne, 1870 and 1880.
			° ′ ″	″	″	″	″	″								
2696	92·67	20	— 20 34 27·00	27·13	+ 15·838	+ 0·29	+ 0·033	—0·09	...	...	...	4313	...	...	...	...
2697	91·88	25	— 23 56 35·74	35·96	+ 15·854	+ 0·30	...	...	...	...	...	4315	...	11402	...	...
2698	87·74	3	— 16 45 15·17	15·43	+ 15·864	+ 0·29	...	...	...	...	...	...	...	...	...	...
2699	91·99	24	— 77 52 38·89	38·90	+ 15·867	+ 0·61	— 0·262	+0·52	...	...	2709	4309	...	11401	1462	...
2700	92·10	10	— 65 18 56·68	56·62	+ 15·870	+ 0·43	0·00	0·00	...	...	2711	4311	...	11403	...	...
2701	95·81	1	— 33 32 21·93	22·15	+ 15·919	+ 0·32	+ 0·03	—0·17	...	...	...	4319	...	11412	...	*1056*
2702	92·07	7	+ 38 2 28·02	27·64	+ 15·923	+ 0·21	+ 0·105	—0·22	...	...	...	...	...	...	...	...
2703	93·37	7	— 71 18 7·72	7·76	+ 15·972	+ 0·48	...	...	...	...	...	...	...	11416	...	...
2704	95·46	13	— 84 27 50·60	50·59	+ 15·973	+ 1·00	...	...	...	...	...	...	...	11410	...	...
2705	88·56	9	— 8 20 49·94	50·04	+ 16·010	+ 0·27	— 0·022	—0·03	358	537	...	4324	1042	11421	1467	...
2706	95·45	14	— 85 32 27·04	27·01	+ 16·019	+ 1·16	...	...	...	...	...	...	...	11414	...	...
2707	89·80	10	+ 39 55 10·78	10·34	+ 16·043	+ 0·20	+ 0·009	0·00	...	...	...	...	...	11432	1468	...
2708*	89·91	7	— 27 47 58·57	58·63	+ 16·053	+ 0·30	— 0·16†	—0·01	...	...	...	...	...	11433	...	...
2709	86·74	11	— 49 12 43·83	43·96	+ 16·090	+ 0·34	...	...	...	...	...	...	...	11438	...	...
2710	90·14	5	— 11 4 18·59	18·64	+ 16·096	+ 0·27	...	...	...	...	...	...	...	...	1470	...
2711†	86·82	44	— 83 13 24·64	24·67	+ 16·118	+ 0·84	0·00*	0·00	...	...	...	4316	1040	11435	1469	1092*
2712	90·16	32	— 17 9 31·58	31·72	+ 16·120	+ 0·28	— 0·013	0·00	359	538	2718	4329	1044	11441	1471	1095*
2713	90·43	6	+ 3 23 52·40	52·31	+ 16·185	+ 0·25	...	...	...	...	...	...	...	...	...	...
2714	92·59	8	— 22 25 39·09	39·32	+ 16·186	+ 0·28	...	...	...	...	...	...	...	...	...	...
2715	91·86	22	— 23 45 36·08	36·23	+ 16·210	+ 0·29	— 0·092	+0·17	...	539	...	4339	...	11454	1472	...
2716	92·71	8	— 57 49 32·68	32·63	+ 16·231	+ 0·36	...	...	...	...	2719	4334	...	11457	...	...
2717	90·86	8	+ 40 18 22·30	21·90	+ 16·282	+ 0·20	— 0·045	+0·04	...	...	...	...	...	...	...	...
2718	89·98	12	— 33 31 38·31	38·34	+ 16·345	+ 0·30	— 0·095	0·00	...	541	2722	4348	1048	11472	...	*1062*
2719	90·64	36	+ 9 22 15·45	15·23	+ 16·365	+ 0·24	+ 0·011	—0·01	*138'*	...	2723	4350	1049	11474	1475	1098*
2720	92·50	8	+ 37 46 48·62	48·25	+ 16·370	+ 0·20	0·00	0·00	...	...	...	...	...	...	...	...
2721	86·73	6	— 47 54 31·63	31·76	+ 16·381	+ 0·33	...	...	...	...	...	...	...	11475	1476	...
2722*	...	...	— 9 35	...	+ 16·383	+ 0·26	+ 0·020	...	361	...	...	4352	...	...	1477	...
2723†	93·81	12	+ 25 8 23·28	22·93	+ 16·410	+ 0·22	+ 0·010	—0·04	...	...	...	...	...	...	1478	...
2724	87·75	4	— 15 44 56·89	57·16	+ 16·433	+ 0·27	...	...	...	...	...	...	...	...	...	...
2725	87·77	3	— 11 52 22·57	22·79	+ 16·457	+ 0·26	— 0·013	—0·03	363	...	...	4357	...	...	1479	*1064*
2726	88·74	23	— 16 37 33·50	33·64	+ 16·475	+ 0·27	— 0·297	—0·37	364	542	2728	4360	1050	11484	1480	*1065*
2727	90·74	6	— 40 1 12·97	12·91	+ 16·479	+ 0·30	...	...	...	...	...	...	...	11485	...	...
2728*	86·75	6	— 47 48 11·52	11·63	+ 16·482	+ 0·32	— 0·31†	—1·01	...	...	2726	4358	...	11486	1481	...
2729	91·61	6	— 56 47 0·49	0·32	+ 16·487	+ 0·35	...	...	...	...	2725	4356	...	11487	...	...
2730	93·05	11	— 70 8 25·84	25·82	+ 16·500	+ 0·42	— 0·024	+0·07	...	...	2724	4353	...	11488	...	1100

2708, 2728. Proper Motion from *Cincinnati Publications*, No. 12. 2711. $5^m·5$, $7^m·7$ $2''·8$ 75° 1893·8 ; $3''·4$ 83° 1835·6. No note of duplicity.
2723. Very close binary ; $4^m·7$. $5^m·4$. Observed as one mass.

No.	Bradley or Lacaille.	Piazzi. 1800.	B.A.C. 1850.	C.G.A. 1875.	Star's Name.	Mag.	Mean Date. 1800+	No. of Obs.	Mean R.A. 1890·0.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_a.	Corr. for μ_a to 1890·0.
									h m s	s	s	s	s
2731	...	...	...	...	B.D. — 20° No. 6293 ...	7·5†	...	...	21 41 33	+ 3·3502	— 0·015	...	...
2732	2849	282	7587	...	11 Pegasi	5·6	85·77	6	21 41 39·220	+ 3·0436	— 0·003	+0·0009	+ 0·004
2733	...	...	...	...	W. B. XXI. 973	8·3†	87·75	4	21 42 34·721	+ 3·2856	— 0·012	...	...
2734	2855	295	7598	...	81 Cygni .....π^2	4·4	88·00	1	21 42 43·640	+ 2·2115	+ 0·009	+0·0011	+ 0·002
2735	...	...	...	...	C.Z. XXI. 1353	9*	87·75	3	21 44 13·341	+ 3·5080	— 0·023	...	...
2736	8879	...	...	29847	Lacaille 8879	7·5	91·49	11	21 44 19·339	+ 7·4082	— 0·557	...	...
2737	...	303	7608	29903	Piazzi XXI. 303	6·4*	85·77	6	21 45 35·212	+ 3·3292	— 0·014	+0·008	+ 0·034
2738	...	...	...	...	C.P.D. — 30° No. 6582..	9·6‡	87·80	3	21 45 48·241	+ 3·5048	— 0·023	...	....
2739	8738	...	...	29823	Lacaille 8738	8·1	94·76	23	21 45 50·974	+17·212	— 4·875	...	...
2740	8943	...	...	29916	Lacaille 8943	7·5*	86·73	6	21 46 16·344	+ 3·8721	— 0·046	...	...
2741†	8951	308	7613	29935	Gruis .....γ	3·2	87·51	12	21 47 15·974	+ 3·6417	— 0·031	+0·0054	+ 0·013
2742	2860	315	7618	29938	51 Capricorni.....μ	5·2	87·86	7	21 47 17·886	+ 3·2558	— 0·011	+0·0181	+ 0·039
2743	2864	321	7627	...	16 Pegasi	5·0	88·36	11	21 48 3·359	+ 2·7268	+ 0·005	—0·0005	— 0·001
2744*	...	320	7628	29957	Piazzi XXI. 320	6·1	85·77	6	21 48 25·611	+ 3·1334	— 0·006	+0·0006	+ 0·003
2745	...	...	...	...	Lalande 42708.....	6·9†	91·04	6	21 49 7·153	+ 2·8208	+ 0·003	...	...
2746	..	...	...	...	Lalande 42700.....	7·2†	...	...	21 49 30	+ 3·3587	— 0·016	...	...
2747	8963	...	...	29987	Lacaille 8963	7¾*	86·75	6	21 49 46·834	+ 3·8439	— 0·045	...	...
2748	8927	...	7625	29985	Lacaille 8927	6·6*	86·65	10	21 50 21·262	+ 6·4988	— 0·395	...	...
2749†	8962	...	7633	29999	Indi.....δ	4·5	89·95	11	21 50 25·620	+ 4·1151	— 0·066	+0·0033	0·000
2750	...	...	...	...	Lalande 42760.....	8·6†	86·78	2	21 51 1·150	+ 2·9884	— 0·001	...	...
2751	8974	...	...	30049	Lacaille 8974	7½*	86·73	5	21 52 22·134	+ 3·8268	— 0·045	...	...
2752*	...	343	7649	30055	M. 909	6·4	87·09	15	21 52 35·733	+ 3·3533	— 0·016	—0·0004	— 0·001
2753	...	...	...	...	B.D. + 6° No. 4941	9·4†	86·76	1	21 54 46·430	+ 2·9950	— 0·001	...	...
2754†	8975	...	7656	30105	Indi.....ϵ	4·8	87·84	12	21 54 55·337	+ 4·1505	— 0·072	+0·4747	+ 1·025
2755	...	...	...	...	B.D. — 14° No. 6193 ...	9·9†	91·72	3	21 55 33·260	+ 3·2447	— 0·011	...	...
2756	2879	363	7664	...	20 Pegasi	5·6	89·60	13	21 55 43·801	+ 2·9184	+ 0·001	+0·0032	+ 0·001
2757*	...	361	7665	30141	M. 911	6·4	85·77	8	21 56 8·462	+ 3·3017	— 0·014	+0·006	+ 0·025
2758	8992	...	7661	30133	Lacaille 8992	7·2*	87·79	4	21 56 10·271	+ 4·1117	— 0·069	...	...
2759	8999	...	...	30148	Lacaille 8999	7½*	86·73	6	21 56 38·864	+ 3·7987	— 0·044	...	...
2760	...	...	7679	...	Lalande 43035..... ...	6·8†	...	...	21 58 13	+ 2·4563	+ 0·010	...	...
2761†	9017	381	7684	30209	Gruis .....λ	4·5	89·67	12	21 59 29·025	+ 3·6370	— 0·034	—0·0030	— 0·001
2762	2891	388	7689	...	22 Pegasi.....ν	4·8	90·39	8	22 0 7·905	+ 3·0197	— 0·002	+0·0049	— 0·002
2763*	2890	387	7688	30221	34 Aquarii .....α	3·2	89·71	24	22 0 8·019	+ 3·0825	— 0·004	—0·0008	0·000
2764*	2889	389	7691	30229	33 Aquarii .....ι	4·3	87·40	25	22 0 29·770	+ 3·2435	— 0·011	0·0000	0·000
2765	...	...	...	...	W. B. XXI. 1374.....	7·3†	90·95	6	22 1 11·253	+ 2·9328	+ 0·001	...	...

2732. 27 Aquarii in B.A.C.

2752. Fundamental star for Southern Zones.

No.	Mean Date. 1800+	No. of Obs.	Mean Dec. 1890·0.	Sec. of Final Dec.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_δ.	Corr. for μ_δ to 1890·0.	Fallows and Henderson.	Johnson.	Cape Catalogues. 1840.	1850.	1860.	1880.	1885.	Melbourne, 1870 and 1880.
			° ′ ″	″	″	″	″	″								
2731	92·53	11	− 20 5 10·28	10·59	+ 16·504	+ 0·27	...	...	...	...	...	...	...	...	...	...
2732*	...	...	+ 2 11	...	+ 16·509	+ 0·25	− 0·010	...	...	...	...	...	...	...	1482	...
2733	87·75	4	− 15 46 27·61	27·88	+ 16·555	+ 0·26	...	...	...	...	...	...	...	...	...	...
2734	91·67	9	+ 48 48 4·54	3·59	+ 16·562	+ 0·18	− 0·021	+0·04	...	...	...	...	...	...	...	...
2735	87·75	3	− 30 15 34·28	34·52	+ 16·635	+ 0·28	...	...	...	...	...	...	...	...	...	...
2736	90·93	12	− 80 14 15·02	14·87	+ 16·641	+ 0·60	...	...	...	...	...	...	...	11502	...	...
2737	...	...	− 19 8	...	+ 16·702	+ 0·26	− 0·08	...	...	...	...	4373	...	...	1484	...
2738*	87·79	4	− 30 20 0·95	1·18	+ 16·712	+ 0·28	...	...	...	...	...	...	...	...	...	...
2739	94·76	25	− 87 0 35·62	35·62	+ 16·715	+ 1·38	...	...	...	...	...	...	...	11500	...	...
2740	86·73	6	− 47 20 56·09	56·23	+ 16·735	+ 0·30	...	...	...	...	...	...	...	11522	1485	...
2741	87·51	12	− 37 52 54·38	54·51	+ 16·783	+ 0·28	− 0·029	−0·07	365*	544	2733	4375	1053	11527	1486	1104
2742	87·86	7	− 14 4 8·41	8·62	+ 16·784	+ 0·25	+ 0·013	+0·03	...	545	...	4378	1054	11528	1487	...
2743	88·17	12	+ 25 24 27·41	27·17	+ 16·820	+ 0·21	− 0·002	0·00	...	...	...	...	1055	11530	1488	1107*
2744	...	...	− 4 47	...	+ 16·838	+ 0·24	− 0·096	...	...	...	...	4384	...	...	1489	*1068*
2745	90·96	5	+ 19 11 58·15	58·01	+ 16·871	+ 0·22	...	...	...	...	...	...	...	...	...	...
2746	92·53	11	− 21 39 33·82	34·13	+ 16·889	+ 0·26	...	...	...	...	...	...	...	...	...	...
2747	86·75	6	− 46 59 59·49	59·60	+ 16·902	+ 0·29	...	...	...	...	...	...	...	11540	1491	...
2748	87·06	24	− 78 11 15·55	15·62	+ 16·929	+ 0·50	...	...	...	...	2734	4382	...	11542	1492	...
2749	90·02	12	− 55 30 54·41	54·39	+ 16·932	+ 0·32	− 0·041	0·00	...	546	2737	4387	1056	11544	1493	1108
2750	86·78	2	+ 6 43 16·24	16·01	+ 16·960	+ 0·23	...	...	...	...	...	...	...	...	1496	...
2751	86·74	6	− 46 52 3·85	3·97	+ 17·023	+ 0·29	...	...	...	...	...	...	...	11559	1498	...
2752*	87·97	9	− 21 42 26·59	26·84	+ 17·034	+ 0·25	+ 0·014	+0·03	...	...	2741	4397	...	...	1499	*1072*
2753	86·76	2	+ 6 21 42·80	42·56	+ 17·133	+ 0·22	...	...	...	...	...	...	...	...	1502	...
2754	87·84	12	− 57 14 8·11	8·20	+ 17·141	+ 0·31	− 2·609	−5·64	...	...	2742	4401	...	11576	1503	1113*
2755	91·72	2	− 14 0 8·50	8·43	+ 17·169	+ 0·24	...	...	...	...	...	...	...	...	...	...
2756	89·60	13	+ 12 35 35·53	35·35	+ 17·177	+ 0·21	− 0·050	−0·02	...	...	...	...	...	...	1507	...
2757	...	...	− 18 26	...	+ 17·195	+ 0·24	− 0·06	...	...	...	...	4405	...	...	1509	*1075*
2758	87·79	4	− 56 30 15·93	16·06	+ 17·196	+ 0·30	...	...	...	...	2743	4404	...	11581	...	...
2759	86·73	6	− 46 39 25·09	25·22	+ 17·218	+ 0·28	...	...	...	...	...	...	...	11585	1512	...
2760	90·96	8	+ 42 17 0·64	0·16	+ 17·287	+ 0·18	..	...	...	...	...	...	...	...	...	...
2761	89·67	12	− 40 4 25·89	25·93	+ 17·344	+ 0·26	− 0·114	−0·04	..	548	2747	4417	...	11603	...	1116
2762	90·39	8	+ 4 31 15·78	15·66	+ 17·372	+ 0·21	+ 0·107	−0·04	...	...	...	...	...	...	...	...
2763	87·84	42	− 0 51 14·46	14·66	+ 17·372	+ 0·22	+ 0·002	0·00	367*	550	2749	4420	1060	11608	1525	1117*
2764	89·65	26	− 14 24 10·75	10·94	+ 17·388	+ 0·23	− 0·049	−0·02	368	551	2750	4422	1061	11609	1530	*1079*
2765	90·95	6	+ 11 54 32·03	31·95	+ 17·418	+ 0·20	...	...	...	...	...	...	...	...	...	...

2738. Magnitude from *Cordoba Durchmusterung*.

No.	Bradley or Lacaille.	Piazzi. 1800.	B.A.C. 1850.	C.G.A. 1875.	Star's Name.	Mag.	Mean Date. 1800+	No. of Obs.	Mean R.A. 1890·0.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_α.	Corr. for μ_α to 1890·0.
									h m s	s	s	s	s
2766†	9021	...	7692	30241	Gruis ..... α	1·9	91·56	9	22 1 17·927	+ 3·7946	— 0·046	+0·0105	— 0·016
2767	...	...	...	...	W.B. XXI. 1382	7·3†	93·56	6	22 1 24·947	+ 2·8802	+ 0·003	...	...
2768	2899	402	7706	...	24 Pegasi ..... ι	4·0	91·98	10	22 1 53·443	+ 2·7680	+ 0·006	+0·0209	— 0·041
2769†	2893*	397	7701	30260	14 Piscis Australis ..... μ	4·6	92·56	10	22 1 57·842	+ 3·5087	— 0·026	+0·0028	— 0·007
2770	9032	...	...	30277	Lacaille 9032	6·5*	86·74	11	22 3 0·284	+ 3·8146	— 0·048	...	...
2771	2915	3	7721	...	27 Pegasi	5·7	91·44	12	22 4 21·163	+ 2·6586	+ 0·009	—0·0050	+ 0·007
2772	2912	421	7720	30312	Bradley 2912	5·9	90·25	6	22 4 37·838	+ 3·1225	— 0·006	+0·0026	— 0·001
2773*	2914	1	7723	...	26 Pegasi ..... θ	3·8	89·44	16	22 4 39·055	+ 3·0086	— 0·001	+0·0177	+ 0·010
2774	2908	418	7719	30313	37 Aquarii	6·8*	92·11	7	22 4 39·699	+ 3·2020	— 0·009	+0·0018	— 0·004
2775	2917	6	7731	...	29 Pegasi ..... π	4·4	92·10	10	22 5 6·103	+ 2·6610	+ 0·009	—0·0020	+ 0·004
2776	2916	5	7733	...	28 Pegasi	6·4	92·54	6	22 5 18·187	+ 2·8335	+ 0·005	—0·0026	+ 0·007
2777†	9010	...	7725	30358	Octantis ..... ε	5·2	94·05	20	22 7 39·046	+ 7·0405	— 0·600	+0·0082	— 0·033
2778†	2922*	21	7750	30384	16 Piscis Australis ..... λ	5·6	91·26	12	22 8 4·643	+ 3·4104	— 0·021	+0·0006	— 0·001
2779	...	...	...	...	C.Z. XXII. 232	9½*	87·78	4	22 8 30·211	+ 3·4084	— 0·021	...	...
2780	9023	...	...	30381	Lacaille 9023	8·4	94·40	6	22 8 45·981	+ 6·5537	— 0·487	...	...
2781	9068	...	...	30393	Lacaille 9068	6·1	86·74	7	22 8 50·803	+ 3·6957	— 0·041	...	...
2782†	9069	23	7756	30395	Gruis ..... μ^1	4·9	94·65	10	22 8 59·233	+ 3·6309	— 0·036	+0·0029	— 0·013
2783	...	36	7765	...	Piazzi XXII. 36	4·7	88·11	3	22 9 9·367	+ 2·5660	+ 0·011	...	...
2784	...	...	...	...	Lalande 43428.....	5·8	...	...	22 9 18	+ 2·4538	+ 0·013	...	...
2785	9067	...	...	30411	Lacaille 9067	6·8*	89·12	6	22 10 14·780	+ 4·3005	— 0·099	...	...
2786	8924	...	7713	30380	Octantis (C) ..... ν	5·7	93·06	35	22 10 24·633	+13·205	— 3·326	—0·043†	+ 0·132
2787	8998	...	...	30400	Lacaille 8998	8·1	91·19	1	22 10 42·626	+ 8·9799	— 1·244	...	...
2788†	9074	...	7767	30422	Toucani ..... α	2·9	92·18	9	22 10 57·549	+ 4·1686	— 0·085	—0·0128	+ 0·028
2789*	2929	44	7773	30430	43 Aquarii ..... θ	4·3	88·17	12	22 11 1·732	+ 3·1621	— 0·008	+0·0057	+ 0·010
2790†	9076	...	7769	30425	Lacaille 9076	5·4	93·46	10	22 11 2·876	+ 3·9195	— 0·061	+0·046	— 0·159
2791	9055	...	...	30428	Lacaille 9055	8*	94·18	5	22 11 29·951	+ 5·4325	— 0·265	...	...
2792	9049	...	...	30448	Lacaille 9049	9·0	95·70	2	22 12 50·209	+ 6·4090	— 0·473	...	...
2793	...	...	...	...	Lalande 43528.....	8·0†	87·79	3	22 13 3·760	+ 3·2015	— 0·010	...	...
2794†	9082	...	7783	30500	Indi ..... ν	5·4	92·00	13	22 15 10·056	+ 4·9788	— 0·198	+0·286	— 0·572
2795	...	70	...	...	Piazzi XXII. 70	7·0†	90·26	6	22 15 26·110	+ 2·9936	0·000	...	...
2796*	2940	67	7790	30513	47 Aquarii	5·4	87·28	2	22 15 32·216	+ 3·3120	— 0·016	—0·0042	— 0·011
2797*	2943	72	7795	30529	48 Aquarii ..... γ	4·1	87·00	18	22 15 58·433	+ 3·0924	— 0·004	+0·0068	+ 0·020
2798	2944	74	7796	...	31 Pegasi	5·1	90·52	12	22 16 6·173	+ 2·9518	+ 0·002	—0·0013	+ 0·001
2799	2948	79	7800	...	2 Lacertæ	4·8	...	...	22 16 29	+ 2·4686	+ 0·014	—0·0005	...
2800	9112	...	7801	30557	Lacaille 9112	5·4	91·28	12	22 17 37·640	+ 4·0091	— 0·074	+0·018†	— 0·023

2771. π^1 Pegasi in B.A.C.
2774. a^1 Aquarii in B.A.C.
2775. π^2 Pegasi in B.A.C.
2786. Designated C Octantis, since 1836, at the Cape.
2796. Fundamental star for Southern Zones.

No.	Mean Date. 1800+	No. of Obs.	Mean Dec. 1890·0.	Sec. of Final Dec.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_δ.	Corr. for μ_δ to 1890·0.	Fallows and Henderson.	Johnson.	Cape Catalogues. 1840.	1850.	1860.	1880.	1885.	Melbourne, 1870 and 1880.
			° ′ ″	″	″	″	″	″								
2766	91·60	10	− 47 29 36·08	36·13	+ 17·423	+ 0·27	− 0·175	+0·28	369*	552	2752	4423	1062	11617	1533	1119*
2767	93·56	6	+ 16 12 50·02	49·65	+ 17·428	+ 0·20	...	...	...	...	...	...	...	...	...	...
2768	91·98	10	+ 24 48 29·30	29·02	+ 17·449	+ 0·19	+ 0·020	−0·04	...	...	...	...	...	11625	1535	...
2769	92·56	10	− 33 31 29·82	29·96	+ 17·452	+ 0·24	− 0·032	+0·08	...	...	2754	4426	...	11623	...	*1081*
2770	86·74	11	− 48 38 40·62	40·74	+ 17·496	+ 0·27	...	...	...	...	...	...	...	11629	...	1120
2771*	91·44	12	+ 32 38 6·25	6·02	+ 17·554	+ 0·18	− 0·061	+0·09	...	...	...	...	...	...	1541	...
2772	90·25	6	− 4 25 58·62	58·70	+ 17·566	+ 0·21	−0·07	+0·02	...	...	...	4439	...	...	...	...
2773	89·21	19	+ 5 39 24·62	24·40	+ 17·566	+ 0·20	+ 0·036	+0·03	...	...	...	...	...	11637	1543	*1083*
2774*	92·11	7	− 11 21 41·92	42·03	+ 17·567	+ 0·22	+ 0·047	−0·10	371	...	...	4438	...	...	...	...
2775*	92·10	10	+ 32 38 19·20	18·88	+ 17·585	+ 0·18	− 0·005	+0·01	...	...	...	...	...	...	1545	...
2776	92·54	6	+ 20 26 15·51	15·20	+ 17·594	+ 0·19	+ 0·002	−0·01	...	...	...	...	...	...	...	...
2777	93·93	20	− 80 59 11·61	11·65	+ 17·691	+ 0·48	− 0·060	+0·24	...	...	2756	4443	1065	11653	...	...
2778	91·26	12	− 28 18 42·84	42·82	+ 17·709	+ 0·23	− 0·015	+0·02	...	...	...	4455	...	11657	...	...
2779	87·78	4	− 28 15 3·25	3·48	+ 17·726	+ 0·22	...	...	...	...	...	...	...	...	...	...
2780	94·19	10	− 79 50 37·38	37·47	+ 17·737	+ 0·44	...	...	...	...	...	...	...	11659	...	...
2781	86·74	11	− 44 59 51·14	51·27	+ 17·740	+ 0·24	...	...	...	...	...	...	...	11666	...	...
2782	94·39	11	− 41 53 36·67	36·83	+ 17·746	+ 0·24	+ 0·020	−0·09	...	554	2760	4458	1068	11667	...	1126
2783	90·45	6	+ 39 10 10·91	10·43	+ 17·753	+ 0·17	...	...	...	...	...	...	...	...	...	...
2784	94·27	6	+ 44 53 43·00	42·17	+ 17·758	+ 0·16	...	...	...	...	...	...	...	...	...	...
2785	89·12	6	− 63 21 34·59	34·59	+ 17·797	+ 0·28	...	...	...	...	...	...	...	11673	...	...
2786*	90·74	158	− 86 31 33·02	32·99	+ 17·804	+ 0·88	+ 0·070†	−0·05	7	549	2753	...	1064	11665	1562	1123*
2787	94·25	11	− 84 4 11·02	11·07	+ 17·816	+ 0·59	...	...	...	...	...	...	...	11668	...	...
2788	92·04	10	− 60 48 26·79	26·82	+ 17·826	+ 0·27	− 0·055	+0·11	374*	555	2762	4462	1071	11679	1564	1128
2789	88·43	14	− 8 19 50·50	50·65	+ 17·829	+ 0·20	− 0·019	−0·03	376	556	2764	4467	1073	11682	1565	1129*
2790	93·46	10	− 54 9 25·37	25·47	+ 17·829	+ 0·25	− 0·67	+2·32	...	...	...	4464	...	11681	...	...
2791	94·26	12	− 75 31 6·06	6·19	+ 17·847	+ 0·35	...	...	...	...	...	...	...	11684	...	...
2792	95·70	2	− 79 45 39·35	39·35	+ 17·899	+ 0·41	...	...	...	...	...	...	...	11690	...	...
2793	87·79	3	− 12 6 28·49	28·76	+ 17·909	+ 0·20	...	...	...	...	...	...	...	...	...	...
2794	92·00	13	− 72 47 23·46	23·50	+ 17·991	+ 0·31	− 0·729	+1·46	...	...	2766	4473	...	11703	...	...
2795	90·26	6	+ 7 37 58·45	58·33	+ 18·002	+ 0·19	...	...	...	...	...	...	...	...	...	...
2796*	87·52	4	− 22 8 55·82	56·05	+ 18·006	+ 0·20	− 0·079	−0·20	...	557	...	4476	...	11707	1577	*1090*
2797	88·03	33	− 1 56 28·74	28·95	+ 18·022	+ 0·19	+ 0·017	+0·03	378	558	...	4481	...	11711	1581	*1092*
2798	90·52	12	+ 11 39 4·19	4·05	+ 18·027	+ 0·18	+ 0·010	−0·01	...	...	...	...	...	...	1582	...
2799	94·20	6	+ 45 58 59·95	59·08	+ 18·042	+ 0·15	− 0·020	+0·08	...	...	...	...	...	...	...	...
2800*	91·28	12	− 58 20 37·62	37·48	+ 18·085	+ 0·24	− 0·35†	+0·45	...	...	2772	4483	...	11719	...	...

2786. Proper Motion determined for this Catalogue.

2800. Proper Motion from *Cincinnati Publications*, No. 12.

No.	Bradley or Lacaille.	Piazzi. 1800.	B.A.C. 1850.	C.G.A. 1875.	Star's Name.	Mag.	Mean Date. 1800+	No. of Obs.	Mean R.A. 1890·0.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_a.	Corr. for μ_a to 1890·0.
									h m s	s	s	s	s
2801	...	...	...	...	✳	10‡	87·80	4	22 17 49·220	+ 3·1957	— 0·009	...	...
2802	...	...	...	...	W.B. XXII. 366	9·0†	86·74	3	22 19 13·050	+ 3·0517	— 0·002	...	...
2803	2952	90	7814	...	52 Aquarii .....π	4·6	87·50	12	22 19 39·604	+ 3·0644	— 0·003	—0·0012	— 0·003
2804	2958	99	7820	...	4 Lacertæ	4·6	...	...	22 20 3	+ 2·4247	+ 0·015	—0·0027	...
2805	9129	...	7822	30628	Lacaille 9129	7·1*	87·07	4	22 21 34·018	+ 4·0610	— 0·083	...	...
2806†	9136	102	7826	30641	Gruis .....ν	5·5	91·03	13	22 22 12·283	+ 3·5317	— 0·033	+0·0025	— 0·003
2807	...	...	...	...	W.B. XXII. 437	8·6†	86·74	2	22 22 12·630	+ 3·0619	— 0·003	...	...
2808†	9138	104	7828	30647	Gruis .....δ^1	4·1	91·21	12	22 22 41·563	+ 3·6053	— 0·039	+0·0005	— 0·001
2809	9139	...	...	30650	Lacaille 9139	7½*	89·17	13	22 22 44·213	+ 3·4954	— 0·030	...	...
2810	...	...	...	...	B.D. — 11° No. 5839 ...	9·0†	91·77	3	22 23 3·230	+ 3·1837	— 0·009	...	...
2811	2960	111	7832	30662	55 Aquarii .....*pr.* ζ	4½*	90·49	4	22 23 10·020	+ 3·0781	— 0·003	+0·0110	— 0·005
2812	2960	111	7832	30663	55 Aquarii .....*seq.* ζ	4½*	88·29	2	22 23 10·075	+ 3·0781	— 0·003	+0·0110	+ 0·019
2813	9140	108	7830	30657	Gruis... .....δ^2	4·3	89·65	6	22 23 11·035	+ 3·6076	— 0·039	...	...
2814*	2966	122	7840	30696	57 Aquarii .....σ	4·8	87·69	11	22 24 49·553	+ 3·1797	— 0·009	—0·0011	— 0·003
2815	2968	129	7843	...	38 Pegasi	5·5	91·80	8	22 24 59·900	+ 2·7359	+ 0·011	+0·0014	— 0·003
2816	2964*	123	7842	30704	17 Piscis Australis .....β	4·5	95·78	10	22 25 15·033	+ 3·4201	— 0·025	+0·0007	— 0·004
2817	...	...	...	...	Lalande 43974.....	6·2	88·65	6	22 25 32·170	+ 3·1394	— 0·006	...	...
2818†	9153	...	7841	30709	Toucani .....ν	4·8	91·45	13	22 25 33·448	+ 4·1032	— 0·091	+0·0013	— 0·002
2819	...	133	...	30728	Piazzi XXII. 133	8*	86·79	2	22 26 17·391	+ 3·2066	— 0·010	...	...
2820	...	...	...	...	B.D. — 14° No. 6302 ...	9·3†	86·80	2	22 26 20·301	+ 3·2065	— 0·010	...	...
2821	2975	141	7855	...	7 Lacertæ	3·9	...	...	22 26 45	+ 2·4482	+ 0·017	+0·0133	...
2822	...	...	...	...	Lalande 44036.....	8·2†	86·74	1	22 27 4·000	+ 3·0675	— 0·002	...	...
2823	9169	...	...	30752	Lacaille 9169	7·4	89·29	10	22 27 22·989	+ 3·3788	— 0·022	...	...
2824	...	...	...	...	B.D. — 11° No. 5865 ...	9·5†	87·71	4	22 27 57·250	+ 3·1734	— 0·009	...	...
2825*	2976	143	7864	30782	59 Aquarii .....υ	5·2	87·35	7	22 28 40·542	+ 3·2744	— 0·015	+0·0142	+ 0·038
2826	...	145	7865	30789	Piazzi XXII. 145	7*	86·75	1	22 28 58·350	+ 3·0722	— 0·003	—0·0040*	— 0·013
2827	9180	146	7866	30797	Lacaille 9180	6·2	95·69	1	22 29 33·352	+ 3·3074	— 0·017	...	...
2828*	2979	151	7868	30800	62 Aquarii .....η	4·2	88·52	25	22 29 42·236	+ 3·0786	— 0·003	+0·0042	+ 0·006
2829	...	...	...	...	B.D. — 8° No. 5905	7·0†	91·80	15	22 30 30·930	+ 3·1461	— 0·007	...	...
2830	...	...	7882	...	Lalande 44213.....	6·3†	...	...	22 31 19	+ 2·4815	+ 0·017	...	...
2831	9123	...	...	30816	Lacaille 9123	7·8	86·34	10	22 31 50·307	+ 8·1130	— 1·196	...	...
2832	2983	166	7884	30842	63 Aquarii .....κ	5·5	85·74	2	22 32 3·521	+ 3·1145	— 0·005	—0·0060	— 0·026
2833	...	...	...	...	B.D. — 10° No. 5959 ...	9·9†	88·40	5	22 32 12·700	+ 3·1642	— 0·008	...	...
2834†	9197	...	...	30855	Lacaille 9197	5·5	90·94	10	22 32 38·475	+ 3·4036	— 0·025	0·000	0·000
2835	9198	...	7889	30875	Lacaille 9198	5·8	91·75	9	22 33 47·814	+ 3·8582	— 0·071	...	...

2806. B.A.C. gives no letter.

2821. α Lacertæ in B.A.C.

2825. Fundamental star for Southern Zones.

No.	Mean Date. 1800+	No. of Obs.	Mean Dec. 1890·0.	Sec. of Final Dec.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_δ.	Corr. for μ_δ to 1890·0.	Fallows and Henderson.	Johnson.	Cape Catalogues. 1840.	1850.	1860.	1880.	1885.	Melbourne, 1870 and 1880.
			° ′ ″	″	″	″	″	″								
2801*	87·80	4	− 12 3 33·17	33·44	+ 18·093	+ 0·19	...	...	...	...	...	...	...	...	...	...
2802	86·74	3	+ 2 5 47·23	46·98	+ 18·145	+ 0·18	...	...	...	...	...	...	...	...	1588	...
2803	87·83	12	+ 0 49 10·06	9·85	+ 18·162	+ 0·18	− 0·004	−0·01	...	...	...	...	...	11732	1590	...
2804	92·15	8	+ 48 55 9·29	8·41	+ 18·176	+ 0·14	− 0·031	+0·07	...	...	...	...	...	...	...	...
2805	87·07	4	− 60 36 53·88	53·93	+ 18·232	+ 0·24	...	...	...	...	...	4495	...	11740	...	...
2806*	90·96	12	− 39 41 17·21	17·28	+ 18·255	+ 0·21	− 0·176	+0·17	...	...	2779	4497	...	11744	...	1136
2807	86·74	2	+ 1 5 47·37	47·12	+ 18·255	+ 0·18	...	...	...	...	...	...	...	...	1592	...
2808	91·21	12	− 44 3 26·07	26·14	+ 18·272	+ 0·21	− 0·009	+0·01	...	560	2780	4498	1081	11745	1593	1138
2809	89·04	12	− 37 31 54·82	54·93	+ 18·274	+ 0·20	...	...	...	...	...	...	...	11746	...	...
2810	91·77	3	− 11 27 30·23	30·16	+ 18·285	+ 0·18	...	...	...	...	...	...	...	...	...	...
2811†	90·49	4	− 0 34 56·45	36·52	+ 18·290	+ 0·18	+ 0·042	−0·02	381	562	...	4500	1084	11750	1597	...
2812†	88·29	2	− 0 34 59·64	59·70	+ 18·290	+ 0·18	+ 0·042	+0·07	381	562	...	4501	1084	11751	...	...
2813	89·65	6	− 44 18 42·21	42·12	+ 18·290	+ 0·21	...	...	...	561	2782	...	1083	11749	1596	1139
2814	88·38	10	− 11 14 26·09	26·25	+ 18·349	+ 0·18	− 0·037	−0·06	...	563	2786	4505	1085	11769	1598	*1098*
2815	91·80	8	+ 32 0 35·04	34·87	+ 18·355	+ 0·15	+ 0·004	−0·01	...	...	...	...	...	...	...	...
2816	95·78	10	− 32 54 35·68	36·15	+ 18·363	+ 0·19	− 0·036	+0·21	...	564	2787	4507	1086	11772	...	1141
2817	89·01	5	− 7 6 58·41	58·61	+ 18·374	+ 0·18	...	...	...	...	...	...	...	...	...	...
2818	91·45	13	− 62 32 48·03	48·05	+ 18·374	+ 0·23	− 0·033	+0·05	...	...	2785	4506	...	11774	1600	1142
2819	86·79	2	− 14 9 39·16	39·31	+ 18·400	+ 0·18	...	...	...	...	...	...	...	...	1603	...
2820	86·80	2	− 14 9 42·27	42·42	+ 18·402	+ 0·18	...	...	...	...	...	...	...	...	...	...
2821*	92·29	7	+ 49 43 3·66	2·57	+ 18·416	+ 0·13	+ 0·005	−0·01	...	...	2789	...	...	...	1605	...
2822	86·74	2	+ 0 32 17·05	16·80	+ 18·427	+ 0·17	...	...	...	...	...	...	...	...	...	...
2823	89·17	13	− 30 13 53·00	53·14	+ 18·438	+ 0·19	...	...	...	...	...	...	...	11786	...	...
2824	87·73	5	− 10 55 22·42	22·68	+ 18·457	+ 0·17	...	...	...	...	...	...	...	...	...	...
2825*	87·99	5	− 21 16 16·59	16·80	+ 18·482	+ 0·18	− 0·147	−0·30	...	565	2790	4516	...	11793	1608	*1103*
2826*	86·75	2	+ 0 1 47·66	47·43	+ 18·492	+ 0·17	− 0·080*	−0·26	...	...	...	4517	...	...	1609	...
2827	95·69	1	− 24 33 32·96	33·12	+ 18·511	+ 0·18	...	...	...	...	...	4518	...	11799	...	...
2828	88·27	30	− 0 41 3·19	3·36	+ 18·516	+ 0·16	− 0·053	−0·09	382	566	...	4520	1092	11800	1610	1146*
2829	91·80	15	− 8 14 2·72	2·67	+ 18·544	+ 0·17	...	...	...	...	...	...	...	...	...	...
2830	94·76	8	+ 49 30 6·58	5·39	+ 18·569	+ 0·13	...	...	...	...	...	...	...	...	...	...
2831	87·25	33	− 84 18 58·15	58·17	+ 18·587	+ 0·44	...	...	...	...	...	...	...	11807	1616	*1106*
2832	...	...	− 4 48	...	+ 18·595	+ 0·16	− 0·108	...	383	...	...	4528	1093	...	1619	...
2833	88·56	4	− 10 24 15·80	16·02	+ 18·600	+ 0·16	...	...	...	...	...	...	...	...	...	...
2834	90·94	10	− 33 39 12·37	12·56	+ 18·614	+ 0·18	+ 0·05	−0·05	...	...	...	...	...	11819	...	...
2835	91·75	9	− 57 59 43·07	42·97	+ 18·651	+ 0·20	...	...	...	...	...	4532	...	11825	...	...

2801. Magnitude from Cape observations.

2811, 2812. Binary.

2826. Proper Motion from Radcliffe, 1890.

No.	Bradley or Lacaille.	Piazzi. 1800.	B.A.C. 1850.	C.G.A. 1875.	Star's Name.	Mag.	Mean Date. 1800+	No. of Obs.	Mean R.A. 1890·0.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_α.	Corr. for μ_α to 1890·0.
									h m s	s	s	s	s
2836	2990	181	7901	...	10 Lacertæ	5·0	87·67	3	22 34 19·427	+ 2·6845	+ 0·014	+0·0011	+ 0·003
2837†	2986*	175	7898	30889	18 Piscis Australis.....ε	4·1	91·52	9	22 34 34·281	+ 3·3272	— 0·020	—0·0005	+ 0·001
2838†	9165	...	7886	30879	Octantis.....β	4·4	86·74	5	22 34 46·528	+ 6·5104	— 0·642	—0·0338	— 0·110
2839	...	...	...	...	Lalande 44331.....	8·1†	86·74	1	22 34 58·340	+ 3·0780	— 0·003	...	...
2840	2992	189	7908	...	42 Pegasi.....ζ	3·6	88·23	13	22 35 58·501	+ 2·9858	+ 0·002	+0·0044	+ 0·008
2841†	9211	...	7904	30913	Gruis.....β	2·1	91·55	8	22 36 5·778	+ 3·5940	— 0·044	+0·0119	— 0·018
2842	9218	193	7916	30930	Gruis .....ρ	4·8	91·77	6	22 37 7·096	+ 3·4983	— 0·035	...	...
2843	...	...	...	...	W.B. XXII. 752	8·5†	87·69	4	22 37 13·440	+ 3·1535	— 0·008	...	...
2844	3001	202	7921	30945	67 Aquarii.....	6·2	91·80	15	22 37 29·590	+ 3·1348	— 0·006	—0·0029	+ 0·005
2845	3003	205	7923	...	44 Pegasi.....η	3·1	91·09	11	22 37 50·688	+ 2·8056	+ 0·011	+0·0001	0·000
2846	...	...	...	...	Lalande 44466.....	6·5†	...	...	22 37 56	+ 2·7164	+ 0·014	...	...
2847	3004*	207	7930	30985	20 Piscis Australis	6·5*	89·43	6	22 39 30·288	+ 3·2950	— 0·018	+0·0013	+ 0·001
2848	...	...	...	...	B.D. — 9° No. 6050	9·5†	91·82	3	22 39 55·950	+ 3·1461	— 0·007	...	...
2849	9202	...	7924	30980	Octantis .....ξ	5·5	86·84	6	22 40 4·604	+ 5·8636	— 0·487	...	...
2850	3010	217	7945	...	47 Pegasi.....λ	4·2	89·14	14	22 41 13·917	+ 2·8814	+ 0·008	+0·0031	+ 0·003
2851†	9249	...	7946	31044	Gruis .....ε	3·7	90·04	12	22 41 54·382	+ 3·6422	— 0·051	+0·0073	0·000
2852	...	...	...	...	B.D. — 9° No. 6061.....	9·5†	87·81	3	22 42 34·090	+ 3·1440	— 0·007	...	...
2853*	3013	225	7954	31082	71 Aquarii .....τ	4·1	86·86	13	22 43 46·053	+ 3·1827	— 0·010	—0·0030	— 0·009
2854	3016	231	7958	...	48 Pegasi.....μ	3·7	90·96	11	22 44 41·598	+ 2·8802	+ 0·009	+0·0096	— 0·009
2855†	9275	227	7957	31099	Lacaille 9275	5·4	91·38	11	22 44 46·390	+ 3·4308	— 0·031	0·000	0·000
2856†	9268	...	7956	31100	Lacaille 9268	6·0	93·73	12	22 45 1·090	+ 3·9444	— 0·093	—0·002	+ 0·007
2857	...	...	...	...	Lalande 44721.....	6·7†	91·94	6	22 46 10·618	+ 2·8678	+ 0·010	...	...
2858†	3017*	234	7966	31123	22 Piscis Australis ..*seq.* γ	4·7	93·47	10	22 46 24·543	+ 3·3513	— 0·024	—0·0049	+ 0·017
2859*	3019	235	7970	31130	73 Aquarii .....λ	3·8	87·07	27	22 46 52·528	+ 3·1327	— 0·006	—0·0016	— 0·005
2860†	9276	...	7965	31127	Indi.....ρ	6·3	93·80	10	22 46 59·663	+ 4·2654	— 0·146	—0·015	+ 0·057
2861	...	...	...	...	W.B. XXII. 953	9·1†	86·74	1	22 47 30·800	+ 3·0886	— 0·003	...	...
2862	...	...	...	...	B.D. — 2° No. 5848.....	9·7†	86·76	1	22 48 19·280	+ 3·0878	— 0·003	...	...
2863	...	...	...	...	✳.....	10·2‡	86·79	1	22 48 48·030	+ 3·0891	— 0·003	...	...
2864	3025	245	7980	31163	76 Aquarii .....δ	3·4	88·47	15	22 48 48·769	+ 3·1928	— 0·011	—0·0051	— 0·008
2865	...	...	...	...	B.D. — 8° No. 5976	9·0†	91·80	3	22 49 4·660	+ 3·1340	— 0·006	...	...
2866	...	...	...	...	Lalande 44840.....	6·6†	89·13	6	22 49 32·652	+ 2·8305	+ 0·013	...	...
2867	...	...	...	31179	Lalande 44823.....	6·6*	87·44	8	22 49 36·242	+ 3·2254	— 0·014	...	...
2868	3031	252	7988	...	50 Pegasi.....ρ	5·0	85·77	6	22 49 41·380	+ 3·0141	+ 0·002	+0·0033	+ 0·014
2869	...	...	...	...	Lalande 44873.....	6·7†	88·29	2	22 50 49·734	+ 2·6924	+ 0·019	...	...
2870	3032*	253	7992	31213	24 Piscis Australis .....α	1·3	86·29	7	22 51 34·201	+ 3·3014	— 0·021	+0·0232	+ 0·086

2849. B.A.C. gives no letter.

2853. τ^2 Aquarii in B.A.C.

No.	Mean Date. 1800+	No. of Obs.	Mean Dec. 1890·0.	Sec. of Final Dec.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_δ.	Corr. for μ_δ to 1890·0.	Fallows and Henderson.	Johnson.	Cape Catalogues. 1840.	1850.	1860.	1880.	1885.	Melbourne, 1870 and 1880.
			° ′ ″	″	″	″	″	″								
2836	90·80	10	+ 38 28 40·54	40·05	+ 18·668	+ 0·14	0·000	0·00	...	...	...	...	...	...	1622	...
2837	91·84	10	— 27 37 1·05	1·18	+ 18·676	+ 0·17	— 0·007	+0·01	...	568	2797	4539	1098	11831	...	...
2838	87·04	17	— 81 57 27·62	27·64	+ 18·682	+ 0·34	— 0·009	—0·03	*12*	567	2794	4530	1096	11830	1623	1148*
2839	86·74	2	— 0 38 40·96	41·19	+ 18·689	+ 0·15	...	...	...	...	...	...	...	...	...	...
2840	88·33	15	+ 10 15 26·47	26·29	+ 18·720	+ 0·15	— 0·018	—0·03	*139*	...	2800	4544	1100	11836	1626	1150*
2841	91·55	8	— 47 27 34·32	34·50	+ 18·724	+ 0·18	— 0·021	+0·03	384*	569	2799	4542	1099	11837	1627	1149
2842	91·77	6	— 41 59 14·50	14·62	+ 18·756	+ 0·17	...	...	...	...	...	4548	...	11843	...	1154
2843	87·69	4	— 9 43 44·34	44·61	+ 18·759	+ 0·16	...	...	...	...	...	...	...	...	...	...
2844	91·80	15	— 7 32 19·41	19·36	+ 18·768	+ 0·15	+ 0·023	—0·04	385	...	...	4552	1102	...	...	...
2845	91·09	11	+ 29 38 45·61	45·21	+ 18·778	+ 0·14	— 0·033	+0·03	...	...	...	...	...	...	1629	...
2846	92·27	6	+ 37 13 37·89	37·36	+ 18·781	+ 0·13	...	...	...	...	...	...	...	...	...	...
2847	89·43	6	— 25 48 54·07	54·19	+ 18·829	+ 0·16	+ 0·043	+0·02	...	...	...	4560	...	11857	1630	...
2848	91·82	3	— 9 8 20·39	20·34	+ 18·842	+ 0·15	...	...	...	...	...	...	...	...	...	...
2849*	86·82	8	— 80 42 13·02	13·01	+ 18·846	+ 0·28	...	...	...	...	...	4554	...	11859	1631	...
2850	89·29	17	+ 22 59 13·11	12·90	+ 18·880	+ 0·13	— 0·004	0·00	...	...	...	...	...	...	1632	...
2851	90·15	14	— 51 53 42·31	42·25	+ 18·900	+ 0·17	— 0·071	+0·01	386	571	2806	4570	1105	11884	1633	1162
2852	87·81	3	— 9 9 58·74	59·02	+ 18·919	+ 0·14	...	...	...	...	...	...	...	...	...	...
2853*	87·80	7	— 14 10 22·18	22·42	+ 18·954	+ 0·14	— 0·040	—0·09	...	...	2808	4575	1107	11897	1634	*1116*
2854	90·95	12	+ 24 1 15·12	14·99	+ 18·980	+ 0·13	— 0·042	+0·04	...	...	...	...	...	11903	1635	...
2855	91·38	11	— 39 44 20·94	20·94	+ 18·982	+ 0·15	— 0·002	0·00	...	...	2811	4579	...	11902	...	*1117*
2856	93·73	12	— 63 46 13·73	13·86	+ 18·989	+ 0·18	— 0·05	+0·19	...	...	2810	4577	...	11905	...	...
2857	91·94	6	+ 25 48 27·32	27·13	+ 19·022	+ 0·12	...	...	...	...	...	...	...	...	...	...
2858†	93·47	10	— 33 27 31·16	31·33	+ 19·028	+ 0·15	— 0·021	+0·07	...	572	2813	4583	1109	11918	...	...
2859	89·52	29	— 8 9 53·24	53·42	+ 19·041	+ 0·13	+ 0·040	+0·02	388	573	2815	4586	1110	11922	1636	*1119*
2860	93·80	10	— 70 39 38·86	38·93	+ 19·044	+ 0·19	+ 0·056	—0·21	...	...	2812	4582	...	11921	...	1164
2861	86·75	2	— 2 12 43·96	44·17	+ 19·058	+ 0·13	...	...	...	...	...	...	...	...	...	...
2862	86·78	2	— 2 7 41·74	41·93	+ 19·080	+ 0·13	...	...	...	...	...	...	...	...	...	...
2863*	86·79	1	— 2 19 18·20	18·23	+ 19·093	+ 0·13	...	...	...	...	...	...	...	...	...	...
2864	89·29	24	— 16 24 20·20	20·37	+ 19·093	+ 0·13	— 0·010	—0·01	389*	574	2816	4590	1111	11935	1637	*1122*
2865	91·80	2	— 8 35 43·97	43·90	+ 19·101	+ 0·13	...	...	...	...	...	...	...	...	...	...
2866	89·13	6	+ 30 53 35·70	35·36	+ 19·113	+ 0·12	...	...	...	...	...	...	...	...	...	...
2867	87·48	9	— 20 43 30·28	30·48	+ 19·114	+ 0·13	...	...	...	...	...	...	...	...	...	...
2868	...	...	+ 8 14	...	+ 19·117	+ 0·12	+ 0·037	...	...	...	...	...	...	...	1638	...
2869	90·16	8	+ 43 43 18·81	18·20	+ 19·147	+ 0·11	...	...	...	...	...	...	...	...	...	...
2870	86·29	7	— 30 12 17·68	17·86	+ 19·166	+ 0·13	— 0·159	—0·59	391*	575	2817	4597	1113	11951	1640	1166*

2858. $4^m·7$, $8^m·9$ 4″ 272°. Brighter star observed.

2863. Magnitude from Cape observations.

No.	Bradley or Lacaille.	Piazzi. 1800.	B.A.C. 1850.	C.G.A. 1875.	Star's Name.	Mag.	Mean Date. 1800+	No. of Obs.	Mean R.A. 1890·0.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_a.	Corr. for μ_a to 1890·0.
									h m s	s	s	s	s
2871	9319	...	...	31249	Lacaille 9319	8*	87·68	8	22 53 41·430	+ 3·4827	— 0·041	...	...
2872	3036	266	8005	...	2 Piscium .....*seq.*	5·6	85·77	6	22 53 49·140	+ 3·0700	— 0·001	+ 0·0039	+ 0·016
2873	9324	...	...	31262	Lacaille 9324	7·2	87·82	6	22 54 21·449	+ 3·5233	— 0·046	...	...
2874†	9322	...	8008	31263	Gruis .....ζ	4·1	87·96	12	22 54 23·025	+ 3·5798	— 0·053	— 0·0102	— 0·021
2875	3043	284	8023	...	1 Andromedæ .....*o*	3·8	87·00	4	22 56 51·599	+ 2·7480	+ 0·019	+ 0·0007	+ 0·002
2876	9350	282	8025	31327	Piscis Australis .....π	5·1	87·30	6	22 57 24·445	+ 3·3283	— 0·025	...	...
2877†	9337	...	8021	31328	Lacaille 9337	5·5	92·18	9	22 57 35·355	+ 4·0300	— 0·126	+ 0·002	— 0·004
2878	...	...	...	...	W. B. (2) XXII. 1279...	6·6†	92·28	7	22 57 42·031	+ 2·9395	+ 0·008	...	...
2879	3047	288	8032	...	53 Pegasi .....β	Var.	93·08	12	22 58 26·543	+ 2·8879	+ 0·012	+ 0·0130	— 0·040
2880	3050	290	8034	...	54 Pegasi .....α	2·6	86·82	17	22 59 16·810	+ 2·9812	+ 0·006	+ 0·0028	+ 0·009
2881	3265	...	...	31365	Bradley 3265	6·4*	92·85	7	22 59 23·602	+ 3·1838	— 0·011	— 0·0071	+ 0·020
2882	9332	...	8030	31360	Lalande 9332	6·1	86·85	2	22 59 24·078	+ 5·0689	— 0·381	...	...
2883	...	...	...	...	Lalande 45163.....	7·2†	91·96	6	22 59 39·945	+ 3·0682	— 0·001	...	...
2884†	9366	296	8043	31380	Gruis .....θ	*	91·66	8	23 0 40·818	+ 3·4042	— 0·036	— 0·0080	+ 0·013
2885†	3053*	299	8047	31385	86 Aquarii .....c^1	4·8	91·31	11	23 0 46·283	+ 3·2270	— 0·016	+ 0·0034	— 0·004
2886	...	...	...	...	Lalande 45223.....	7·3†	88·75	1	23 1 31·400	+ 2·7680	+ 0·019	...	...
2887	9374	...	8055	31418	Lacaille 9374	6·5*	92·55	6	23 2 41·241	+ 3·9111	— 0·115	...	...
2888	3064	312	8059	...	5 Andromedæ.....	5·9	...	...	23 2 45	+ 2·6962	+ 0·024	+ 0·0139	...
2889	9355	...	8049	31417	Lacaille 9355	6·5	87·13	7	23 2 57·478	+ 5·2787	— 0·475	...	...
2890	3059	310	8060	...	5 Piscium.....A	5·5	93·11	6	23 3 2·912	+ 3·0637	— 0·001	+ 0·0075	— 0·023
2891*	3062	313	8062	31431	88 Aquarii .....c^2	3·6	86·57	7	23 3 34·881	+ 3·2026	— 0·014	+ 0·0021	+ 0·007
2892	9377	...	8061	31432	Lacaille 9377	6·8*	95·79	1	23 3 47·809	+ 3·6619	— 0·075	...	...
2893†	9382	...	8067	31445	Gruis .....ι	4·1	89·37	7	23 4 7·788	+ 3·4048	— 0·038	+ 0·0106	+ 0·007
2894	...	...	...	...	Lalande 45350.....	6·8†	90·81	6	23 4 52·572	+ 2·8644	+ 0·015	...	...
2895	3072	9	8078	...	59 Pegasi	5·1	85·77	6	23 6 10·910	+ 3·0281	+ 0·003	— 0·0020	— 0·008
2896	...	...	...	...	C.Z. XXIII. 183	9*	87·65	4	23 7 49·341	+ 3·2323	— 0·018	...	...
2897	...	...	...	...	B. D. — 4° No. 5846 ...	9·5†	86·77	1	23 8 28·470	+ 3·0927	— 0·003	...	...
2898	...	...	...	31515	C.G.A. 31515	9*	87·71	3	23 8 32·201	+ 3·2284	— 0·018	...	...
2899	3076	19	8085	31521	90 Aquarii .....φ	4·2	87·72	18	23 8 37·519	+ 3·1071	— 0·004	+ 0·0009	+ 0·002
2900	...	...	...	...	Lalande 45498.....	6·4	90·03	5	23 9 11·028	+ 2·9626	+ 0·011	...	...
2901	...	...	...	...	B. D. — 6° No. 6175 ...	9·7†	87·81	4	23 9 42·480	+ 3·1038	— 0·004	...	...
2902†	9412	...	8093	31547	Lacaille 9412	5·7	91·36	12	23 10 20·502	+ 3·6270	— 0·078	+ 0·0215	— 0·029
2903	9424	24	...	31558	Lacaille 9424	6·7*	94·77	12	23 10 45·902	+ 3·3273	— 0·031	...	...
2904†	9420	...	8098	31563	Toucani .....γ	4·0	92·44	9	23 11 0·279	+ 3·5416	— 0·064	— 0·0086	+ 0·021
2905	9225	...	8072	31530	Octantis .....τ	5·6	92·00	36	23 11 16·596	+11·513	— 5·679	+ 0·019†	— 0·038

2876. B.A.C. gives no letter.

2891. Fundamental star for Southern Zones.

No.	Mean Date. 1800+	No. of Obs.	Mean Dec. 1890·0.	Sec. of Final Dec.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_δ.	Corr. for μ_δ to 1890·0.	Fallows and Henderson.	Johnson.	Cape Catalogues. 1840.	1850.	1860.	1880.	1885.	Melbourne, 1870 and 1880.
			° ′ ″	″	″	″	″	″								
2871	87·68	8	− 47 4 51·64	51·79	+ 19·219	+ 0·14	...	...	...	...	...	...	...	11963	...	...
2872†	...	...	+ 0 23	...	+ 19·223	+ 0·12	− 0·074	...	...	...	...	...	...	...	1642	...
2873	87·82	6	− 50 2 27·69	27·81	+ 19·236	+ 0·14	...	...	...	...	...	...	...	11968	...	...
2874	87·96	12	− 53 20 37·81	37·86	+ 19·237	+ 0·14	− 0·012	−0·02	...	576	...	4605	1115	11969	1643	1168
2875	88·85	13	+ 41 44 6·07	5·52	+ 19·297	+ 0·10	0·000	0·00	...	...	2819	...	...	...	1644	...
2876*	87·30	6	− 35 20 38·62	38·77	+ 19·310	+ 0·12	...	...	...	...	2820	4616	...	11991	...	...
2877	92·18	9	− 69 24 53·23	53·19	+ 19·314	+ 0·15	+ 0·062	−0·14	...	...	2818	4614	...	11992	...	...
2878	92·28	7	+ 20 19 38·73	38·48	+ 19·317	+ 0·11	...	...	...	...	...	...	...	...	...	...
2879*	92·64	14	+ 27 29 11·14	10·76	+ 19·334	+ 0·10	+ 0·133	−0·35	...	...	...	...	...	...	1645	...
2880	87·17	18	+ 14 36 48·84	48·55	+ 19·353	+ 0·11	− 0·030	−0·08	*145*	...	2822	4620	1120	12006	1648	1174*
2881	92·85	7	− 17 40 17·05	17·20	+ 19·356	+ 0·11	− 0·039	+0·11	...	...	...	...	...	...	...	...
2882	87·12	27	− 80 4 25·84	25·87	+ 19·356	+ 0·19	...	...	...	...	2821	4619	...	12005	1647	...
2883	91·96	6	+ 0 42 51·74	51·48	+ 19·362	+ 0·11	...	...	...	...	...	...	...	...	...	...
2884†	91·66	8	− 44 6 51·41	51·47	+ 19·385	+ 0·12	− 0·046	+0·08	...	577	2824	4625	1122	12013	1650	1176
2885	91·02	12	− 24 20 13·58	13·79	+ 19·387	+ 0·11	− 0·002	0·00	...	...	2827	4630	...	12016	...	...
2886	92·78	5	+ 42 3 48·11	47·45	+ 19·404	+ 0·10	...	...	...	...	...	...	...	...	...	...
2887	92·55	6	− 68 28 14·31	14·32	+ 19·429	+ 0·13	...	...	...	...	...	4633	...	12028	...	1178
2888	94·30	6	+ 48 41 49·79	48·71	+ 19·430	+ 0·09	+ 0·123	−0·53	...	...	...	...	...	...	...	...
2889	87·01	9	− 81 30 33·12	33·10	+ 19·435	+ 0·18	...	...	...	...	...	4631	...	12029	...	...
2890	93·11	6	+ 1 31 45·11	44·95	+ 19·437	+ 0·10	+ 0·119	−0·37	...	...	...	...	1123	...	...	...
2891*	87·20	10	− 21 46 9·58	9·71	+ 19·448	+ 0·10	+ 0·030	+0·08	...	579	...	4637	...	12032	1652	*1137*
2892	95·79	1	− 61 9 35·62	35·76	+ 19·452	+ 0·12	...	...	...	...	...	4636	...	12033	...	...
2893	89·37	7	− 45 50 32·71	32·69	+ 19·460	+ 0·11	− 0·060	−0·04	397	580	...	4641	1124	12038	1653	1181
2894	90·81	6	+ 33 10 20·57	20·32	+ 19·476	+ 0·09	...	...	...	...	...	...	...	...	...	...
2895	...	...,	+ 8 7	...	+ 19·503	+ 0·10	0·000	...	...	...	...	...	...	...	1655	...
2896	87·65	4	− 27 54 20·28	20·51	+ 19·535	+ 0·10	...	...	...	...	...	...	...	...	...	...
2897	86·77	2	− 3 52 51·08	51·24	+ 19·548	+ 0·09	...	...	...	...	...	...	...	...	...	...
2898	87·71	3	− 27 38 43·46	43·69	+ 19·550	+ 0·10	...	...	...	...	...	...	...	...	...	...
2899	88·70	12	− 6 38 30·49	30·58	+ 19·551	+ 0·09	− 0·184	−0·24	399	582	2832	4647	1126	12060	1656	...
2900	90·03	5	+ 23 30 13·30	13·09	+ 19·562	+ 0·09	...	...	...	...	...	...	...	...	...	...
2901	87·74	5	− 6 8 10·22	10·50	+ 19·572	+ 0·09	...	...	...	...	...	...	...	...	...	...
2902	91·31	13	− 62 36 1·95	2·01	+ 19·584	+ 0·11	− 0·050	+0·07	...	...	2835	4654	1127	12072	...	...
2903	94·77	12	− 41 47 42·12	42·31	+ 19·592	+ 0·10	...	...	...	...	...	...	...	12080	...	...
2904	92·44	9	− 58 50 18·89	18·95	+ 19·596	+ 0·10	+ 0·075	−0·18	400	583	2837	4657	1128	12083	1658	1185
2905*	90·58	93	− 88 5 9·35	9·28	+ 19·602	+ 0·35	+ 0·010†	−0·01	*4*	578	2828	4643	1125	12069	1657	1182*

2872. $5^m·6$. $13^m·0$ 3″·3 93°. 1891·59. Distance probably diminishing. Brighter star observed.
2879. Limits of magnitude 2·2—2·7. Period irregular.
2884. $4^m·5$, $8^m·2$ 2″·1 26°. 1891·9. Angle increasing. No note of duplicity.
2905. Proper Motion determined for this Catalogue.

No.	Bradley or Lacaille.	Piazzi. 1800.	B.A.C. 1850.	C.G.A. 1875.	Star's Name.	Mag.	Mean Date. 1800+	No. of Obs.	Mean R.A. 1890·0.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_α.	Corr. for μ_α to 1890·0.
									h m s	s	s	s	
2906*	3082	31	8105	...	6 Piscium ..... γ	3·8	87·90	20	23 11 27·656	+ 3·0593	+ 0·001	+ 0·0487	+ 0·102
2907	...	...	...	...	Lalande 45596.....	8·9†	87·72	4	23 12 14·650	+ 3·1021	— 0·004	...	...
2908†	9435	36	8113	31591	Sculptoris ..... γ	4·3	87·79	11	23 12 52·981	+ 3·2506	— 0·022	— 0·0027	— 0·006
2909	3090	46	8119	31614	96 Aquarii	5·7	85·77	6	23 13 41·740	+ 3·0994	— 0·004	+ 0·0111	+ 0·047
2910	3095	52	8128	...	10 Andromedæ	6·1	...	...	23 14 38	+ 2·8401	+ 0·022	+ 0·0036	...
2911	3096	56	8131	...	62 Pegasi ..... τ	4·7	91·00	10	23 15 11·512	+ 2·9615	+ 0·011	+ 0·0009	— 0·001
2912†	9448	55	8132	31643	Lacaille 9448	5·9	89·01	9	23 15 23·788	+ 3·2076	— 0·017	— 0·0040	— 0·004
2913	3099	59	8136	...	12 Andromedæ	5·8	...	...	23 15 34	+ 2·8743	+ 0·019	+ 0·0093	...
2914	...	...	8134	31649	W.B. XXIII. 280	6·7*	94·14	6	23 15 41·268	+ 3·0962	— 0·003	...	...
2915*	3105	63	8144	31676	98 Aquarii ..... b^1	4·1	87·00	6	23 17 11·638	+ 3·1662	— 0·012	— 0·0105	— 0·032
2916	3106	65	8146	...	65 Pegasi	6·1	89·98	6	23 17 11·845	+ 2·9810	+ 0·010	— 0·0017	0·000
2917	9401	...	...	31672	Lacaille 9401	7·6	92·58	18	23 18 4·774	+ 6·8473	— 1·578	...	...
2918	9462	70	8155	31701	Lacaille 9462	6·8*	95·86	3	23 18 16·222	+ 3·1722	— 0·013	— 0·0060*	+ 0·035
2919	...	...	...	...	✳	10·5‡	91·82	2	23 18 24·570	+ 3·0916	— 0·003	...	...
2920	...	...	...	...	B.D. — 5° No. 5982 ...	9·2†	91·80	3	23 18 42·610	+ 3·0935	— 0·003	...	...
2921	9463	...	8157	31714	Lacaille 9463	5·5	93·73	6	23 19 2·830	+ 3·4448	— 0·058	...	...
2922	...	...	...	...	✳	9·9‡	88·47	4	23 19 35·243	+ 3·2996	— 0·033	...	...
2923	3114	77	8160	...	68 Pegasi..... υ	4·6	90·00	9	23 19 53·305	+ 2·9746	+ 0·011	+ 0·0112	0·000
2924	3113	78	8161	31734	99 Aquarii ..... b^2	4·4	87·51	3	23 20 16·071	+ 3·1622	— 0·012	— 0·0052	— 0·013
2925†	9470	...	8163	31737	Gruis ..... o	5·5	92·30	9	23 20 27·005	+ 3·3808	— 0·048	— 0·0024	+ 0·006
2926	9478	82	8167	31748	Lacaille 9478	7·0*	92·93	6	23 20 47·514	+ 3·1661	— 0·013	0·000*	0·000
2927*	3116	83	8169	...	8 Piscium ..... κ	5·0	88·70	33	23 21 17·602	+ 3·0699	0·000	+ 0·0041	+ 0·005
2928	3120	92	8177	...	10 Piscium ..... θ	4·4	91·86	7	23 22 23·276	+ 3·0504	+ 0·003	— 0·0104	+ 0·019
2929	9489	...	...	31775	Lacaille 9489	6·4*	94·83	9	23 22 36·691	+ 3·1785	— 0·016	...	...
2930†	9483	...	8176	31773	Lacaille 9483	5·6	94·41	8	23 22 38·507	+ 3·5117	— 0·077	+ 0·001	— 0·004
2931	...	...	...	...	C.P.D. — 37° No. 9355..	8·7‡	87·83	5	23 22 54·231	+ 3·2374	— 0·025	....	...
2932	3122	94	8182	...	70 Pegasi	4·7	87·67	9	23 23 35·462	+ 3·0269	+ 0·006	+ 0·0013	+ 0·003
2933	...	96	8184	31795	Piazzi XXIII. 96	6·3	94·70	5	23 23 50·890	+ 3·0914	— 0·003	+ 0·010	— 0·047
2934	...	...	...	...	Lalande 46003.....	7·0†	...	...	23 24 11	+ 2·8580	+ 0·026	...	...
2935	9502	...	8189	31826	Lacaille 9502	5·8	89·29	6	23 25 28·028	+ 3·2764	— 0·034	0·000*	0·000
2936	...	...	..	...	C.Z. XXIII. 684	9*	87·69	3	23 26 1·891	+ 3·2234	— 0·025	...	...
2937†	9494	...	8190	31840	Lacaille 9494	5·8	92·37	18	23 26 12·227	+ 3·9961	— 0·223	— 0·003	+ 0·007
2938	...	...	...	...	Lalande 46134.....	6·5†	90·44	5	23 26 37·108	+ 3·0505	+ 0·003	...	...
2939†	9513	111	8201	31859	Sculptoris ..... β	4·6	88·52	10	23 27 4·250	+ 3·2244	— 0·026	+ 0·0047	+ 0·007
2940	9505	...	8200	31857	Lacaille 9505	8*	94·75	6	23 27 6·372	+ 3·7549	— 0·153	...	...

2915. Fundamental star for Southern Zones.

2925. B.A.C. gives no letter.

2932. q Pegasi in B.A.C.

No.	Mean Date. 1800+	No. of Obs.	Mean Dec. 1890·0.	Sec. of Final Dec.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_{δ}.	Corr. for μ_{δ} to 1890·0.	Fallows and Henderson.	Johnson.	Cape Catalogues. 1840.	1850.	1860.	1880.	1885.	Melbourne, 1870 and 1880.
			° ′ ″	″	″	″	″	″								
2906	88·38	21	+ 2 40 52·67	52·50	+ 19·605	+ 0·09	+ 0·017	+0·03	...	...	...	...	1129	12088	1659	1186
2907	87·72	4	— 6 7 3·66	3·94	+ 19·619	+ 0·08	...	...	...	...	...	...	...	...	...	...
2908	87·71	12	— 33 7 51·89	52·06	+ 19·631	+ 0·09	— 0·071	—0·16	...	585	2841	4666	...	12096	..	1187
2909	...	...	— 5 43	...	+ 19·645	+ 0·08	+ 0·002	...	402	...	...	4669	1132	...	1660	...
2910	94·71	6	+ 41 28 34·21	33·54	+ 19·661	+ 0·07	+ 0·016	—0·08	...	...	...	...	...	...	...	...
2911	90·55	11	+ 23 8 18·16	17·89	+ 19·671	+ 0·08	— 0·014	+0·01	...	...	...	...	...	...	1661	...
2912	89·01	9	— 27 35 20·36	20·50	+ 19·674	+ 0·08	— 0·050	—0·05	...	...	...	4674	...	12113	...	...
2913	94·12	6	+ 37 34 54·90	54·33	+ 19·677	+ 0·07	— 0·069	+0·28	...	...	...	...	...	...	...	...
2914	94·14	6	— 5 16 27·63	27·89	+ 19·679	+ 0·08	...	...	...	..	...	4675	...	...	...	...
2915*	87·00	6	— 20 42 3·05	3·18	+ 19·704	+ 0·08	— 0·089	—0·27	404	587	2847	4679	...	12121	1662	*1159*
2916	89·98	6	+ 20 13 33·17	32·99	+ 19·704	+ 0·07	+ 0·004	0·00	...	...	...	...	...	...	...	...
2917	90·36	31	— 86 18 50·72	50·72	+ 19·719	+ 0·17	...	...	...	...	...	...	...	12124	1663	...
2918*	95·86	3	— 22 22 33·29	33·55	+ 19·721	+ 0·08	— 0·110*	+0·64	...	...	2849	4687	...	12130	...	...
2919*	91·82	2	— 4 31 48·06	48·02	+ 19·724	+ 0·07	...	...	...	...	...	...	...	...	...	...
2920	91·80	3	— 5 0 0·98	0·93	+ 19·728	+ 0·07	...	...	...	...	...	...	...	...	...	...
2921	93·73	6	— 57 27 9·65	9·70	+ 19·734	+ 0·08	...	...	...	...	2850	4688	1133	12133	...	...
2922*	88·34	5	— 44 4 53·66	53·80	+ 19·742	+ 0·08	...	...	...	...	...	...	...	...	...	...
2923	89·60	10	+ 22 47 55·00	54·77	+ 19·747	+ 0·07	+ 0·039	+0·02	...	...	...	...	...	...	1664	...
2924	87·58	4	— 21 14 40·79	41·01	+ 19·752	+ 0·07	— 0·054	—0·13	406	588	...	4689	...	12139	...	...
2925*	92·30	9	— 53 19 48·94	49·10	+ 19·755	+ 0·08	+ 0·13	—0·30	...	...	2851	4690	...	12141	...	...
2926	92·93	6	— 22 20 44·43	44·55	+ 19·760	+ 0·07	0·00*	0·00	...	...	2852	4694	...	12146	...	...
2927	88·69	42	+ 0 39 12·60	12·41	+ 19·768	+ 0·07	— 0·102	—0·13	407	...	2854	...	1134	12151	1665	1191*
2928	91·44	9	+ 5 46 29·68	29·50	+ 19·784	+ 0·06	— 0·045	+0·06	...	...	...	...	...	12158	1667	...
2929	94·77	11	— 26 1 32·36	32·58	+ 19·787	+ 0·07	...	...	...	...	...	...	...	12162	...	...
2930	94·41	8	— 63 42 57·84	57·94	+ 19·787	+ 0·07	— 0·02	+0·09	...	...	2856	4698	...	12161	...	1193
2931*	87·83	5	— 37 25 20·38	20·59	+ 19·791	+ 0·07	...	...	...	...	...	...	...	...	...	...
2932*	89·85	13	+ 12 9 13·53	13·18	+ 19·800	+ 0·06	+ 0·030	0·00	...	...	...	...	...	...	1668	...
2933	94·70	5	— 5 7 55·46	55·74	+ 19·804	+ 0·06	— 0·21	+0·99	408	...	...	4703	...	...	1669	...
2934	92·47	6	+ 45 51 32·93	32·19	+ 19·808	+ 0·06	...	...	...	...	...	...	...	...	...	...
2935	89·29	6	— 45 26 59·40	59·35	+ 19·826	+ 0·06	...	...	...	...	2857	4705	...	12176	...	...
2936	87·68	5	— 37 23 23·02	23·23	+ 19·833	+ 0·06	...	...	...	...	...	...	...	...	...	...
2937	92·39	18	— 77 59 33·93	33·93	+ 19·835	+ 0·08	0·00	0·00	...	...	...	4706	...	12184	...	...
2938	90·02	6	+ 6 28 45·60	45·42	+ 19·841	+ 0·06	...	...	...	...	...	..	...	...	...	...
2939	85·52	10	— 38 25 35·36	35·44	+ 19·846	+ 0·06	— 0·016	—0·02	411	589	...	4716	1136	12191	...	1195
2940	94·75	6	— 74 20 36·77	36·87	+ 19·847	+ 0·07	...	...	...	...	2859	4715	...	12190	...	...

2918. Proper Motion from Radcliffe, 1890.
2931. Magnitude from *Cordoba Durchmusterung*.

2919, 2922. Magnitude from Cape observations.

No.	Bradley or Lacaille.	Piazzi. 1800.	B.A.C. 1850.	C.G.A. 1875.	Star's Name.	Mag.	Mean Date. 1800+	No. of Obs.	Mean R.A. 1890·0.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_α.	Corr. for μ_α to 1890·0.
									h m s	s	s	s	s
2941*	3130	114	8202	31869	101 Aquarii ..... b^2	4·7	88·32	2	23 27 31·135	+ 3·1470	— 0·012	—0·0029	— 0·005
2942	3132	115	8203	...	71 Pegasi	5·4	87·82	4	23 27 57·461	+ 2·9976	+ 0·011	—0·0012	— 0·003
2943	3134	118	8206	...	72 Pegasi (as one mass)...	5·2	91·50	10	23 28 29·750	+ 2·9637	+ 0·016	+0·0019	— 0·003
2944	9464	...	...	31876	Lacaille 9464	7·9	92·03	20	23 28 40·809	+ 6·5556	— 1·850	...	...
2945†	9523	120	8210	31906	Phœnicis..... .....ι	4·9	88·35	12	23 29 9·339	+ 3·2411	— 0·031	+0·0001	0·000
2946	...	...	...	...	Lalande 46240.....	7·3†	91·31	6	23 30 26·415	+ 2·9839	+ 0·015	...	...
2947†	9535	...	8220	31955	Lacaille 9535	4·9	90·49	12	23 31 55·586	+ 3·2422	— 0·034	+0·0034	— 0·002
2948	3143	138	8224	...	16 Andromedæ .....λ	4·0	...	...	23 32 11	+ 2·9056	+ 0·028	+0·0157	...
2949	3144	142	8229	...	17 Audromedæ .....ι	4·3	...	...	23 32 44	+ 2·9263	+ 0·025	+0·0014	...
2950	...	...	...	...	B.D. — 3° No. 5680.....	9·1†	87·59	3	23 33 35·050	+ 3·0807	— 0·001	...	...
2951*	3148	145	8233	...	17 Piscium .....ι	4·3	89·09	32	23 34 17·515	+ 3·0593	+ 0·003	+0·0234	+ 0·021
2952	...	...	...	...	B.D. — 3° No. 5686.....	9·6†	91·86	3	23 34 29·760	+ 3·0805	— 0·001	...	...
2953†	9552	148	8236	32003	Sculptoris .....μ	5·3	88·37	11	23 34 51·793	+ 3·1664	— 0·020	—0·0138	— 0·022
2954	3149	151	8237	...	19 Andromedæ .....κ	4·4	...	...	23 34 59	+ 2·9332	+ 0·026	+0·0069	...
2955	3150	154	8240	32019	103 Aquarii	5·7	94·70	12	23 35 52·131	+ 3·1199	— 0·010	—0·0042	+ 0·020
2956	3153	158	8243	...	18 Piscium .....λ	4·7	89·20	5	23 36 26·026	+ 3·0697	+ 0·001	—0·0107	— 0·009
2957*	3154	159	8246	32043	105 Aquarii.....ω^2	4·7	87·67	21	23 37 1·038	+ 3·1087	— 0·008	+0·0053	+ 0·012
2958	3156	162	8248	...	76 Pegasi	6·3†	92·18	6	23 37 8·773	+ 3·0350	+ 0·009	+0·0044	— 0·010
2959	...	...	...	...	B.D. — 2° No. 6023.....	9·6†	91·80	3	23 37 28·620	+ 3·0777	— 0·001	...	...
2960	9560	...	8249	32060	Lacaille 9560	5·6	86·44	5	23 37 58·511	+ 3·7580	— 0·229	...	...
2961†	9566	...	8251	32064	Lacaille 9566	6·0	92·29	10	23 38 7·372	+ 3·4448	— 0·107	+0·046	— 0·105
2962	3159	165	8255	32076	106 Aquarii .....i^1	5·3	89·08	12	23 38 29·685	+ 3·1153	— 0·010	+0·0006	+ 0·001
2963	...	...	...	...	B.D. — 2° No. 6032.....	8·9†	91·78	3	23 39 45·810	+ 3·0778	0·000	...	...
2964	9563	...	...	32098	Lacaille 9563	7·9	91·90	20	23 40 17·449	+ 4·2593	— 0·545	...	...
2965	9585	...	8260	32117	Lacaille 9585	6·9	88·00	18	23 40 42·834	+ 3·1743	— 0·028	+0·010*	+ 0·020
2966†	9591	...	8264	32130	Phœnicis .....σ	5·4	90·01	12	23 41 25·497	+ 3·2053	— 0·039	—0·0077	0·000
2967	9595	...	...	32142	Lacaille 9595	7¼*	90·99	6	23 41 57·054	+ 3·2112	— 0·042	...	...
2968	...	...	...	...	Lalande 46609.....	7·3†	93·83	3	23 42 0·020	+ 3·0818	— 0·002	...	...
2969	...	...	...	...	✳	9·4†	91·79	3	23 42 0·430	+ 3·0758	0·000	...	...
2970	...	...	...	...	W.B. XXIII. 821	8·2†	86·76	1	23 42 13·300	+ 3·0831	— 0·002	—0·011†	— 0·036
2971†	9603	192	8275	32161	Sculptoris .....*seq.* δ	4·6	87·00	14	23 43 11·699	+ 3·1262	— 0·016	+0·0040	+ 0·012
2972	...	203	8288	32194	Piazzi XXIII. 203	5·9	88·50	6	23 44 52·877	+ 3·0961	— 0·007	...	...
2973	9615	...	...	32198	Lacaille 9615	6·9*	94·70	12	23 45 13·983	+ 3·1725	— 0·036	...	...
2974	9596	...	...	32195	Lacaille 9596	7¾*	95·54	12	23 45 25·222	+ 4·4653	— 0·932	...	...
2975	9607	....	8290	32200	Octantis ....γ^1	5·1	87·65	17	23 45 38·000	+ 3·7200	— 0·327	—0·030*	— 0·071

2941. †Fundamental star for Southern Zones. b^4 Aquarii in B.A.C.

2955. A^1 Aquarii in B.A.C. and C.G.A.

No.	Mean Date. 1800+	No. of Obs.	Mean Dec. 1890·0.	Sec. of Final Dec.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_δ.	Corr. for μ_δ to 1890·0.	Fallows and Henderson.	Johnson.	Cape Catalogues. 1840.	1850.	1860.	1880.	1885.	Melbourne, 1870 and 1880.
			° ′ ″	″	′	″	′	″								
2941*	88·32	2	— 21 31 20·02	20·27	+ 19·852	+ 0·06	+ 0·019	+0·03	...	590	2860	4717	...	...	1671	1174
2942	87·66	6	+ 21 53 30·79	30·43	+ 19·857	+ 0·05	— 0·027	—0·06	...	...	...	...	...	...	...	...
2943†	91·50	10	+ 30 43 5·64	5·36	+ 19·864	+ 0·05	— 0·005	+0·01	...	...	...	...	...	...	...	...
2944	90·36	31	— 87 0 24·31	24·32	+ 19·866	+ 0·12	...	...	...	...	...	...	...	12199	1672	...
2945	88·39	11	— 43 13 23·52	23·63	+ 19·872	+ 0·06	— 0·005	—0·01	...	591	2861	4722	1137	12206	...	1198
2946	91·31	6	+ 27 15 23·81	23·60	+ 19·886	+ 0·05	...	...	...	...	...	...	...	...	...	...
2947	90·49	12	— 46 6 3·64	3·63	+ 19·903	+ 0·05	— 0·04	+0·02	...	...	2864	4726	...	12217	...	1178
2948	93·21	10	+ 45 51 43·47	42·71	+ 19·905	+ 0·04	— 0·425	+1·36	...	...	...	...	...	...	1675	...
2949	92·70	10	+ 42 39 33·94	33·32	+ 19·911	+ 0·04	— 0·012	+0·03	...	...	...	...	...	...	...	1181
2950	87·56	4	— 3 2 50·71	51·01	+ 19·920	+ 0·04	...	...	...	...	...	...	...	...	...	...
2951	88·60	30	+ 5 1 49·05	48·86	+ 19·927	+ 0·04	— 0·443	—0·62	130	...	2868	4733	1140	12234	1676	1203*
2952	91·86	3	— 3 5 19·41	19·40	+ 19·929	+ 0·04	...	...	...	...	...	...	...	...	...	...
2953	88·25	12	— 32 40 52·44	52·53	+ 19·933	+ 0·04	— 0·039	—0·07	...	...	...	4735	...	12238	...	1204
2954	93·46	10	+ 43 43 29·59	28·94	+ 19·934	+ 0·04	— 0·024	+0·08	...	...	...	...	...	...	1677	...
2955*	94·70	12	— 18 38 5·76	6·00	+ 19·942	+ 0·04	— 0·075	+0·35	414	594	...	4737	...	12244	...	...
2956	88·80	6	+ 1 10 28·52	28·39	+ 19·947	+ 0·04	— 0·137	—0·16	...	...	...	4740	1141	12250	1678	...
2957	88·68	34	— 15 9 10·86	11·06	+ 19·952	+ 0·04	— 0·055	—0·07	...	...	2869	4742	...	...	1679	1185
2958	92·18	6	+ 15 43 30·42	30·28	+ 19·953	+ 0·04	+ 0·012	—0·03	...	...	...	...	...	...	...	...
2959	91·80	3	— 2 15 2·17	2·12	+ 19·956	+ 0·04	...	...	...	...	...	...	...	...	...	...
2960	86·86	12	— 79 24 7·83	7·85	+ 19·960	+ 0·04	...	...	...	...	2870	...	...	12260	1680	...
2961	92·29	10	— 71 6 9·25	9·34	+ 19·962	+ 0·04	+ 0·08	—0·18	...	...	2871	4743	...	12262	...	...
2962	89·08	12	— 18 53 14·65	14·69	+ 19·965	+ 0·03	— 0·011	—0·01	415	596	...	4746	...	12269	1681	...
2963	91·78	3	— 2 33 21·10	21·05	+ 19·975	+ 0·03	...	...	...	...	...	...	...	...	...	...
2964	90·53	30	— 84 28 25·33	25·36	+ 19·979	+ 0·05	...	...	...	...	...	...	...	12272	1682	...
2965	88·00	18	— 42 9 58·53	58·66	+ 19·982	+ 0·03	— 0·85*	—1·70	...	...	...	...	...	12277	...	1187
2966	90·01	12	— 50 50 12·77	12·76	+ 19·987	+ 0·03	— 0·02	0·00	...	...	2874	4750	...	12284	...	1188
2967	90·99	6	— 52 48 58·75	58·74	+ 19·991	+ 0·03	...	...	...	...	...	...	...	12291	...	...
2968	93·83	3	— 5 4 23·52	23·69	+ 19·991	+ 0·03	...	...	...	...	...	...	...	...	...	...
2969	91·79	3	— 1 47 20·74	20·69	+ 19·991	+ 0·03	...	...	...	...	...	...	...	...	...	...
2970*	86·78	2	— 5 51 1·45	1·63	+ 19·993	+ 0·03	— 0·19†	—0·61	...	...	...	...	...	...	...	...
2971†	87·15	13	— 28 44 18·66	18·75	+ 19·999	+ 0·02	— 0·111	—0·32	417	597	2876	4756	1145	12297	1683	1210*
2972	88·50	6	— 15 0 44·83	45·07	+ 20·009	+ 0·02	...	...	...	...	2878	4762	...	...	...	...
2973	94·70	12	— 49 16 14·54	14·72	+ 20·011	+ 0·02	...	...	...	...	...	...	...	12311	...	...
2974	95·54	12	— 86 30 28·70	28·68	+ 20·012	+ 0·03	...	...	...	...	...	...	...	12309	...	...
2975	87·72	27	— 82 37 48·05	48·07	+ 20·014	+ 0·03	— 0·03*	—0·07	10	598	2879	4763	1147	12313	1685	1212*

2943. Very close binary ; $6^m{\cdot}0$, $6^m{\cdot}0$. Observed as one mass.
2971. $4^m{\cdot}6$, $11^m{\cdot}0$ $3''{\cdot}3$ 229°. Brighter star observed.

2970. Proper Motion from *Cincinnati Publications*, No. 12.

No.	Bradley or Lacaille.	Piazzi. 1800.	B.A.C. 1850.	C.G.A. 1875.	Star's Name.	Mag.	Mean Date. 1800+	No. of Obs.	Mean R.A. 1890·0.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_α.	Corr. for μ_α to 1890·0.
									h m s	s	s	s	s
2976	9620	...	...	32209	Lacaille 9620	6·5*	88·46	6	23 45 55·531	+ 3·1306	— 0·021	...	...
2977	3175	211	8296	...	Bradley 3175	6·3	88·66	5	23 46 48·340	+ 3·0429	+ 0·012	— 0·0046	— 0·006
2978	3176	212	8299	...	81 Pegasi .....ϕ	5·2	88·86	35	23 46 53·492	+ 3·0469	+ 0·011	— 0·0033	— 0·004
2979	9630	...	...	32225	Lacaille 9630	6·7*	88·06	14	23 46 59·730	+ 3·1088	— 0·013	...	...
2980	...	...	...	...	W.B. XXIII. 915	9·0†	94·79	3	23 47 3·040	+ 3·0790	— 0·001	...	...
2981	9614	...	...	32223	Lacaille 9614	6·8	92·06	9	23 47 9·697	+ 3·7419	— 0·382	...	...
2982	...	217	...	...	Piazzi XXIII. 217	6·9‡	90·52	6	23 47 22·818	+ 3·0578	+ 0·007	...	...
2983†	9633	222	8304	32239	Lacaille 9633	6·4	90·15	10	23 47 39·523	+ 3·1058	— 0·013	+ 0·0005	0·000
2984	...	...	...	...	B.D. — 5° No. 6075 ...	8·8†	94·79	3	23 48 25·000	+ 3·0783	— 0·001	...	...
2985	9635	...	...	32255	Lacaille 9635	7½*	91·85	11	23 48 49·294	+ 3·4114	— 0·188	...	...
2986	...	...	...	32264	Lalande 46866.....	6·8*	87·66	6	23 49 24·425	+ 3·0835	— 0·004	...	...
2987	9643	...	8313	32265	Lacaille 9643	6·1	91·49	6	23 49 35·230	+ 3·1112	— 0·018	...	...
2988	9656	...	8318	32298	Lacaille 9656	7*	88·55	7	23 50 58·492	+ 3·1560	— 0·049	...	...
2989	9659	...	...	32304	Lacaille 9659	6·4*	95·79	3	23 51 27·732	+ 3·0982	— 0·014	...	...
2990	9651	...	8319	32303	Octantis .....γ^2	5·6	86·54	17	23 51 29·742	+ 3·4641	— 0·354	— 0·017*	— 0·059
2991	9663	...	...	32316	Lacaille 9663	6·7*	94·71	12	23 51 57·312	+ 3·1039	— 0·019	...	...
2992	3186	239	8324	...	84 Pegasi .....ψ	4·6	89·36	8	23 52 9·219	+ 3·0516	+ 0·015	— 0·0043	— 0·003
2993	...	241	...	...	Piazzi XXIII. 241	8·7†	94·84	3	23 52 30·900	+ 3·0760	— 0·001	...	...
2994†	9671	...	8329	32333	Phœnicis .....π	5·1	87·74	11	23 53 13·558	+ 3·1256	— 0·040	0·0000	0·000
2995	3191	246	8331	...	28 Piscium.....ω	4·2	89·18	28	23 53 39·748	+ 3·0684	+ 0·005	+ 0·0087	+ 0·007
2996†	9678	...	8334	32347	Toucani .....ε	4·6	90·56	14	23 54 11·666	+ 3·1492	— 0·070	+ 0·0043	— 0·002
2997†	9691	...	8342	32376	Octantis.....θ	4·6	93·03	19	23 55 55·870	+ 3·1810	— 0·145	— 0·029	+ 0·088
2998	9696	254	8343	32378	Lacaille 9696	6·7*	95·79	3	23 56 2·613	+ 3·0924	— 0·024	...	...
2999	...	...	8345	...	Lalande 47111.....	6·1	87·34	4	23 56 6·290	+ 3·0522	+ 0·028	...	...
3000	3196	255	8346	32379	29 Piscium	5·1	93·83	3	23 56 11·220	+ 3·0739	0·000	— 0·0002	+ 0·001
3001	3197	256	8349	32383	30 Piscium	4·6	87·75	4	23 56 19·160	+ 3·0750	— 0·002	+ 0·0019	+ 0·004
3002	...	...	...	...	W.B. XXIII. 1152	9·0†	86·77	1	23 57 39·010	+ 3·0740	— 0·001	...	...
3003*	3204	264	8358	32405	2 Ceti	4·6	89·67	6	23 58 6·223	+ 3·0761	— 0·008	— 0·0001	0·000
3004	...	...	...	...	Lalande 47190.....	7·0†	90·00	7	23 58 21·851	+ 3·0706	+ 0·008	...	...
3005†	9710	...	8363	32421	Lacaille 9710	5·6	89·85	9	23 59 6·128	+ 3·0887	— 0·095	+ 0·003	0·000
3006	3208	272	8368	32431	33 Piscium	4·6	88·04	11	23 59 42·292	+ 3·0727	— 0·001	— 0·0019	— 0·004
3007	...	...	...	...	Lalande 47233.....	7·8†	94·87	3	23 59 47·530	+ 3·0726	0·000	...	...

No.	Mean Date. 1800+	No. of Obs.	Mean Dec. 1890·0.	Sec. of Final Dec.	Annual Precession. 1890·0.	Secular Variation. 1890·0.	Annual Proper Motion. μ_δ	Corr. for μ_δ to 1890·0.	Fallows and Henderson.	Johnson.	Cape Catalogues. 1840.	1850.	1860.	1880.	1885.	Melbourne, 1870 and 1880.
			° ′ ″	″	″	″	″	″								
2976.	88·46	6	− 35 18 9·55	9·56	+20·015	+ 0·02	...	...	...	...	...	...	...	12318	...	...
2977	89·02	6	+ 21 3 33·55	33·27	+20·020	+ 0·02	− 0·018	−0·02	...	...	...	...	...	...	...	...
2978	89·24	41	+ 18 30 34·61	34·23	+20·020	+ 0·02	− 0·042	−0·03	...	...	...	...	...	...	1690	...
2979	88·06	14	− 25 35 51·03	51·22	+20·021	+ 0·02	...	...	...	...	...	...	...	12326	...	...
2980	94·79	3	− 4 54 19·83	20·11	+20·021	+ 0·02	...	...	...	...	...	...	...	...	...	...
2981	92·54	12	− 83 37 11·10	11·07	+20·022	+ 0·02	...	...	...	...	...	...	...	12327	...	...
2982*	90·52	6	+ 11 18 47·61	47·42	+20·023	+ 0·02	...	...	...	...	...	...	...	...	...	...
2983	89·85	11	− 24 50 27·52	27·62	+20·024	+ 0·02	− 0·013	0·00	...	...	...	4768	...	12333	...	...
2984	94·79	3	− 4 53 26·44	26·72	+20·027	+ 0·02	...	...	...	...	...	...	...	...	...	...
2985	91·78	12	− 79 6 59·32	59·28	+20·029	+ 0·02	...	...	...	...	...	...	...	12341	...	...
2986	87·66	6	− 10 4 22·42	22·65	+20·032	+ 0·01	...	...	...	...	...	...	...	...	...	...
2987	91·49	6	− 32 32 1·83	1·76	+20·032	+ 0·01	...	...	...	...	...	4774	...	12344	...	1215
2988	88·55	7	− 57 45 38·04	38·01	+20·037	+ 0·01	...	...	...	...	...	4775	...	12358	...	...
2989	95·79	3	− 27 14 11·20	11·35	+20·038	+ 0·01	...	...	...	...	...	...	...	12361	...	...
2990	86·85	25	− 82 46 53·18	53·29	+20·039	+ 0·01	− 0·03*	−0·09	418*	599	2883	4776	1151	12360	1693	1217*
2991	94·71	12	− 33 48 7·46	7·67	+20·041	+ 0·01	...	...	...	...	...	...	...	12367	...	...
2992	89·51	9	+ 24 31 48·37	48·03	+20·041	+ 0·01	− 0·024	−0·01	...	...	...	...	...	...	...	...
2993	94·84	3	− 4 35 31·75	32·02	+20·042	+ 0·01	...	...	...	...	...	...	...	...	...	...
2994	87·73	10	− 53 21 36·97	37·06	+20·044	+ 0·01	+ 0·045	+0·10	...	...	...	4782	...	12376	...	*1203*
2995	88·56	45	+ 6 15 15·72	15·45	+20·045	0·00	− 0·108	−0·16	...	...	2886	...	1154	12380	1696	1221*
2996	90·56	14	− 66 11 20·52	20·45	+20·047	0·00	− 0·043	+0·02	420	602	2887	4785	1155	12389	1697	1222
2997	93·15	20	− 77 40 23·33	23·38	+20·050	0·00	− 0·160	+0·50	...	...	...	4789	...	12404	...	...
2998	95·79	3	− 40 45 38·76	38·86	+20·050	0·00	...	...	...	...	...	4790	...	12405	...	...
2999	87·34	4	+ 41 45 16·91	16·31	+20·050	0·00	...	...	...	...	...	...	...	...	...	...
3000	93·83	3	− 3 38 23·26	23·43	+20·050	0·00	− 0·002	+0·01	421	603	...	4791	1156	12406	1702	*1207*
3001	87·29	7	− 6 37 30·84	31·07	+20·050	0·00	− 0·031	−0·08	...	604	2889	4794	1157	12409	...	...
3002	86·81	2	− 6 4 22·14	22·30	+20·052	0·00	...	...	...	...	...	...	...	...	...	...
3003	89·71	7	− 17 56 53·59	53·80	+20·052	0·00	+ 0·005	0·00	422	605	2890	4798	...	12416	1710	*1209*
3004	90·00	7	+ 11 32 1·14	0·86	+20·052	0·00	...	...	...	...	...	...	...	...	...	...
3005	89·85	9	− 72 2 56·73	56·70	+20·053	− 0·01	− 0·032	0·00	...	...	...	4802	...	12425	...	...
3006	88·16	13	− 6 19 22·39	22·52	+20·053	− 0·01	+ 0·096	+0·18	424	606	2891	4805	1158	12431	1713	...
3007	94·87	3	− 4 27 46·65	46·93	+20·053	− 0·01	...	...	...	...	...	...	...	...	...	...

2982. Magnitude from Struve's *Mensuræ Micrometricæ*.

CAPE GENERAL CATALOGUE OF STARS FOR 1890·0.

APPENDIX I.

COMPARISON WITH OTHER CATALOGUES.

I.—GREENWICH FIVE-YEAR CATALOGUE, 1890; AUWERS' FUNDAMENTAL CATALOGUE (B.J.).

II.—CAPE CATALOGUE OF 12,441 STARS FOR 1880·0; MELBOURNE CATALOGUE OF 1,211 STARS FOR 1880·0; GREENWICH CATALOGUE OF 4,059 STARS FOR 1880·0; CAPE CATALOGUE OF 1,713 STARS FOR 1885·0; RADCLIFFE CATALOGUE OF 6,424 STARS FOR 1890·0.

COMPARISON OF CAPE GENERAL CATALOGUE 1890 WITH GREENWICH FIVE-YEAR CATALOGUE 1890 AND BERLINER JAHRBUCH 1890.

No.	Mean R.A. 1890·0.			Mean Dec. 1890·0.			No.	Mean R.A. 1890·0.			Mean Dec. 1890·0.		
	Cape. 1890.	Gr. 1890.	B.J. 1890.	Cape. 1890.	Gr. 1890.	B.J. 1890.		Cape. 1890.	Gr. 1890.	B.J. 1890.	Cape. 1890.	Gr. 1890.	B.J. 1890.
	h m s	s	s	° ′ ″	″	″		h m s	s	s	° ′ ″	″	″
7	0 2 42·063	42·077	42·098	+ 28 28 58·64	59·39	59·25	340	2 32 34·217	...	34·189	+ 21 29 6·62	...	7·38
14	0 4	...	36·271	+ 45 27 36·68	...	35·66	344	2 33 50·633	50·607	50·655	— 0 8 46·83	46·52	47·61
18	0 7 34·248	34·245	34·277	+ 14 34 18·72	19·04	19·02	353	2 36 41·045	...	41·259	+ 48 45 46·02	...	45·44
30	0 13 49·377	49·340	49·373	— 9 26 1·30	1·82	2·11	354	2 36 59·802	...	59·782	+ 27 14 18·92	...	18·85
46	0 24 25·508	25·458	25·502	— 4 33 54·65	55·24	54·91	356	2 37 36·059	35·989	36·020	+ 2 46 18·75	18·65	18·25
59	0 31 0·389	...	0·332	+ 33 6 48·36	...	49·12	358	2 38 53·233	...	53·211	— 14 19 29·50	...	29·90
64	0 32 44·518	44·533	44·567	+ 28 42 52·17	52·16	51·63	359	2 38 59·716	...	59·675	+ 9 38 57·53	...	57·51
65	0 33 26·717	...	26·785	+ 30 15 31·79	...	32·45	364	2 43 30·507	...	30·516	+ 26 48 24·00	...	23·84
73	0 38 4·061	4·055	4·074	— 18 35 25·95	26·38	26·59	367	2 45 25·107	25·109	...	+ 14 37 42·46	42·07	...
75	0 38	...	35·738	+ 47 40 57·01	...	55·74	368	2 46 2·967	...	2·936	— 21 27 27·71	...	29·00
80	0 41 30·471	...	30·452	+ 23 40 7·69	...	7·19	376	2 51 3·192	...	3·205	— 9 20 10·65	...	10·98
85	0 42 58·507	58·459	58·493	+ 6 59 10·71	10·14	10·23	380	2 52 55·298	55·273	...	+ 20 53 59·76	59·78	...
100	0 47 23·179	23·123	...	— 1 44 30·35	30·43	...	385	2 56 31·706	31·718	31·706	+ 3 39 28·13	27·72	27·88
108	0 50 38·839	38·794	38·958	+ 37 54 9·48	9·39	9·46	390	2 58 7·618	...	7·653	+ 38 24 48·89	...	48·76
130	0 57 14·022	13·999	14·030	+ 7 17 51·87	51·03	52·17	393	3 1 0·667	...	0·686	+ 40 31 52·83	...	52·65
150	1 3 3·334	34·361	3·355	— 10 45 55·65	...	56·40	395	3 1	...	7·762	+ 49 11 31·96	...	32·84
151	1 3 34·323	34·361	34·423	+ 35 2 13·62	13·81	14·32	399	3 5 20·328	20·265	20·312	+ 19 18 36·67	36·42	36·53
159	1 5 36·113	...	36·144	+ 29 30 19·39	...	20·07	400	3 7 23·899	...	23·913	— 29 25 15·68	...	16·18
174	1 13 25·210	...	25·209	+ 26 41 8·00	...	8·37	411	3 14 52·591	52·512	...	+ 20 45 0·23	0·47	...
184	1 18 31·514	31·453	31·508	— 8 45 4·42	4·74	4·31	414	3 16	28·097	28·220	+ 49 28 11·65	8·64	8·33
198	1 25 35·810	35·771	35·798	+ 14 46 42·57	42·62	42·42	420	3 18 53·585	53·550	53·612	+ 8 38 28·62	28·12	28·47
207	1 31 14·288	...	14·472	+ 48 4 14·62	...	14·32	423	3 21 12·392	...	12·451	+ 9 20 55·38	...	54·58
219	1 35 42·376	42·347	42·374	+ 4 55 50·40	50·42	50·58	430	3 24 47·959	47·942	47·968	+ 12 33 33·07	32·98	33·07
221	1 36	...	46·005	+ 50 8 5·47	...	3·05	438	3 27 44·868	44·809	44·847	— 9 49 51·70	51·35	52·51
224	1 38 57·458	...	57·433	— 16 31 1·10	...	1·87	455	3 35	...	5·599	+ 47 26 6·83	...	6·32
225	1 39 35·084	35·021	35·054	+ 8 36 14·21	13·89	13·80	459	3 37 25·194	...	25·208	+ 31 56 20·48	...	20·83
227	1 40 29·617	...	29·562	— 25 36 9·53	...	10·25	460	3 37	...	43·297	+ 42 13 49·72	...	49·08
234	1 46 1·839	1·781	1·823	— 10 52 43·52	43·69	43·67	462	3 37 58·736	58·665	58·706	— 10 8 10·09	10·81	11·16
235	1 46 48·632	48·680	48·680	+ 29 2 32·74	...	33·55	463	3 38 20·572	...	20·578	+ 23 46 0·98	...	0·85
236	1 47 29·653	...	29·628	+ 18 45 14·64	...	14·96	468	3 40 56·714	56·704	56·708	+ 23 45 51·54	51·77	51·97
237	1 47 29·674	...	...	+ 18 45 23·39	...	...	473	3 42 6·891	...	6·902	— 23 34 30·14	...	31·77
238	1 47 51·634	...	51·637	+ 2 38 39·30	...	39·09	475	3 42 37·247	...	37·263	+ 23 42 59·24	...	58·85
239	1 48 33·787	33·745	33·778	+ 20 16 12·00	12·20	12·12	490	3 47 13·035	...	13·045	+ 31 33 22·20	...	22·82
248	1 54 49·339	...	49·296	— 21 36 40·08	...	40·94	498	3 50 28·278	...	28·320	+ 39 41 28·90	...	28·88
256	1 57 8·833	8·763	8·840	+ 41 48 5·35	5·93	5·37	502	3 51 49·642	...	49·650	+ 35 28 26·62	...	26·43
261	2 0 58·275	58·312	58·332	+ 22 56 31·47	30·97	31·24	503	3 52 53·805	53·773	53·810	— 13 49 18·72	18·92	19·27
269	2 2 59·842	...	59·921	+ 34 28 0·10	...	59·81	504	3 54 35·117	...	35·140	+ 12 10 44·24	...	44·00
284	2 7 10·167	10·102	...	+ 8 19 49·64	48·80	...	509	3 57 18·261	...	18·286	+ 5 41 0·96	...	0·50
286	2 8 3·845	...	3·769	— 31 14 24·43	...	25·55	510	3 58 11·457	11·483	...	+ 21 46 50·95	50·61	...
291	2 10 46·485	...	46·500	+ 33 20 16·53	...	17·17	513	4 0 40·442	...	40·546	+ 47 25 5·68	...	4·76
292	2 11 29·822	29·778	29·784	— 6 55 45·66	46·30	45·62	515	4 2 45·425	45·395	...	+ 19 19 3·82	3·34	...
294	2 12 0·409	...	0·304	+ 19 23 31·01	...	30·91	519	4 6 29·733	29·709	29·763	— 7 7 29·69	29·53	29·74
300	2 13 47·346	...	47·328	— 3 28 38·83	...	39·53	533	4 13 16·031	...	16·056	+ 34 18 1·26	...	1·25
318	2 22 18·610	18·565	18·605	+ 7 57 59·95	59·67	59·93	534	4 13 31·972	31·927	31·989	+ 15 21 40·88	41·04	40·51
335	2 30 6·120	6·045	...	+ 5 6 45·80	46·47	...	540	4 16 35·431	...	35·443	+ 17 17 2·14	...	1·97

No.	Mean R.A. 1890·0.			Mean Dec. 1890·0.			No.	Mean R.A. 1890·0.			Mean Dec. 1890·0.		
	Cape. 1890.	Gr. 1890.	B.J. 1890.	Cape. 1890.	Gr. 1890.	B.J. 1890.		Cape. 1890.	Gr. 1890.	B.J. 1890.	Cape. 1890.	Gr. 1890.	B.J. 1890.
	h m s	s	s	° ′ ″	″	″		h m s	s	s	° ′ ″	″	″
547	4 22 11·578	11·565	11·591	+ 18 56 9·09	9·29	8·75	735	6 17 56·366	...	56·380	+ 4 38 53·29	...	52·88
552	4 29 36·473	36·469	36·485	+ 16 17 14·80	15·00	14·86	744	6 22 25·924	25·882	...	+ 20 16 51·48	52·02	...
554	4 30 49·348	...	49·305	− 3 34 40·41	...	40·43	745	6 22 31·669	...	31·652	− 4 41 41·30	...	41·69
562	4 33 8·573	...	8·494	− 14 31 10·13	...	11·23	755	6 30 26·794	...	26·781	− 22 52 41·22	...	41·32
566	4 35 38·543	38·520	38·538	+ 22 44 42·47	42·11	42·97	756	6 31 2·103	...	2·181	+ 39 29 13·40	...	12·93
574	4 40 0·140	0·096	0·099	− 3 27 24·66	24·82	24·74	757	6 31 21·426	21·396	21·441	+ 16 29 32·86	33·02	32·87
585	4 45 20·886	...	20·823	+ 5 24 58·93	...	58·72	764	6 34 55·185	...	55·216	+ 9 59 48·80	...	48·44
588	4 48 31·266	...	31·294	+ 2 15 35·44	...	35·51	767	6 37 9·853	...	9·847	+ 25 14 21·62	...	21·60
591	4 49 49·771	49·767	49·822	+ 32 59 27·59	28·65	28·33	770	6 39 6·930	6·890	6·926	+ 13 0 48·65	48·57	48·47
599	4 54 4·384	...	4·501	+ 43 39 35·64	...	34·88	771	*α* Can. Maj.	...	...	...	...	...
600	4 54 47·189	...	47·346	+ 40 54 51·79	...	52·35	773	6 42 7·531	...	7·514	+ 2 31 54·91	...	54·51
602	4 56 31·239	...	31·222	+ 21 25 55·77	...	55·60	776	6 45 32·263	...	32·361	+ 34 5 34·47	...	35·55
607	4 58 47·952	...	48·061	+ 41 5 5·54	...	5·77	783	6 49 4·757	4·737	4·743	− 11 54 4·62	5·58	5·23
609	5 0 48·243	48·242	48·259	− 22 31 9·15	10·04	10·32	792	6 54 18·133	18·081	18·137	− 28 49 22·07	21·96	22·58
611	5 2 26·508	...	26·508	− 5 13 45·23	...	45·07	797	6 57 35·078	35·037	35·094	+ 20 43 51·37	51·52	51·58
615	5 3 52·955	...	52·929	− 8 53 44·38	...	44·24	801	6 58 46·898	46·844	46·873	− 15 28 16·57	16·54	17·00
619	5 5 53·939	...	54·015	+ 38 21 11·88	...	11·99	813	7 3 55·095	55·130	55·108	− 26 13 8·46	10·45	9·07
623	5 8 33·788	33·578	33·785	+ 45 53 7·15	6·07	6·67	814	7 4 5·264	...	5·351	+ 39 29 57·00	...	57·47
624	5 9 15·060	15·057	15·057	− 8 19 45·38	44·98	45·76	829	7 11 46·259	...	46·282	+ 16 44 17·20	...	17·62
627	5 12 15·873	...	15·862	− 6 57 49·45	...	50·17	834	7 13 33·201	33·168	33·197	+ 22 11 2·96	2·79	3·41
638	5 18 56·716	...	56·734	− 2 29 55·76	...	56·31	844	7 18 53·661	...	53·677	+ 28 0 57·86	...	57·73
639	5 19 13·844	...	13·825	+ 6 14 57·72	...	57·60	850	7 21 11·089	11·074	11·126	+ 8 30 37·30	36·99	37·54
640	5 19 20·249	20·273	20·283	+ 28 30 49·14	50·07	49·47	854	7 22 2·144	...	2·126	+ 32 0 8·28	...	9·40
644	5 23 31·875	...	31·919	− 20 50 51·15	...	51·83	863	7 27 34·859	34·851	34·665	+ 32 7 44·08	44·64	44·54
651	5 26 23·164	23·109	23·176	− 0 22 52·54	52·42	52·63	871	7 31 48·531	...	48·435	− 3 51 57·56	...	57·44
654	5 27 52·700	52·662	52·696	− 17 54 5·46	6·08	5·96	884	7 37 48·361	...	48·394	+ 24 39 39·76	...	39·94
655	5 28 46·960	...	46·875	+ 9 24 51·42	...	51·59	886	7 38 35·051	35·073	35·079	+ 28 17 27·84	28·09	28·53
658	5 29 52·287	...	52·208	− 5 27 46·68	...	45·95	891	7 40 24·817	...	24·868	+ 33 41 5·80	...	6·10
659	5 29 58·751	...	58·781	− 5 29 20·46	...	20·52	898	7 44 40·037	40·011	...	− 24 35 2·56	3·81	...
661	5 30 3·097	...	3·123	− 5 58 57·63	...	57·79	902	7 46 42·148	...	42·090	+ 47 50 57·25	...	55·99
662	5 30 37·899	37·880	37·859	− 1 16 21·80	22·19	22·01	921	7 56 45·697	45·697	45·728	+ 28 6 7·60	8·10	7·81
663	5 31 4·229	...	4·230	+ 21 4 28·82	...	28·86	927	8 2 51·523	51·519	51·546	− 23 59 15·37	16·06	15·78
666	5 33 13·431	...	13·395	− 2 39 51·05	...	51·33	939	8 8 16·619	...	16·613	− 15 27 26·03	...	27·05
669	5 35 39·910	39·931	...	− 34 7 59·29	4·70	...	942	8 10 32·958	32·938	32·976	+ 9 31 26·48	26·07	26·48
675	5 39 52·606	...	52·601	− 22 29 5·35	...	5·43	955	8 20 9·847	...	9·815	− 3 32 52·92	...	52·73
676	5 41 58·268	...	58·267	− 14 51 48·40	...	48·67	967	8 25 45·942	...	45·821	+ 38 23 34·73	...	33·95
678	5 42 32·308	32·348	32·323	− 9 42 33·41	33·48	33·46	970	8 26 20·882	20·833	20·865	+ 20 48 51·33	51·23	51·62
680	5 43 51·793	...	51·882	+ 39 6 54·72	...	55·51	994	8 36 55·262	55·189	...	+ 21 51 49·32	48·35	...
685	5 46 35·361	...	35·459	− 20 53 20·37	...	21·37	999	8 38 26·006	...	26·013	+ 18 33 29·38	...	29·39
689	5 49 12·912	12·969	12·966	+ 7 23 8·97	9·21	9·34	1002	8 40 2·424	...	2·449	+ 29 9 41·86	...	42·63
692	5 51 23·677	...	23·655	− 14 11 17·80	...	18·09	1003	8 40 57·057	56·970	57·045	+ 6 49 18·87	18·84	19·21
693	5 51	...	27·599	+ 44 56 6·78	8·56	7·17	1015	8 47 31·960	...	31·982	+ 30 59 43·72	...	43·58
696	5 52 13·145	...	13·241	+ 37 12 14·33	...	14·76	1019	8 49 34·746	...	34·751	+ 6 21 49·63	...	49·56
705	5 59 9·692	...	9·670	+ 4 9 51·04	...	51·11	1025	8 51	40·489	40·535	+ 48 28 23·48	22·78	22·85
707	6 1 17·452	17·427	17·480	+ 14 46 51·11	50·56	51·40	1026	8 52 28·264	28·257	28·248	+ 12 16 59·21	58·64	59·18
720	6 8 14·262	14·231	14·272	+ 22 32 17·19	16·31	16·88	1029	8 53 29·853	...	29·906	+ 42 13 4·66	...	3·75
730	6 16 5·409	5·354	...	− 30 0 53·97	53·93	...	1033	8 56 6·720	...	6·879	+ 47 35 28·71	...	27·36
731	6 16 18·315	18·298	18·347	+ 22 34 9·61	9·57	9·81	1042	9 1 47·370	47·349	...	+ 11 6 37·87	37·32	...
732	6 16	...	25·610	+ 49 20 36·29	...	35·12	1055	9 8 38·477	...	38·475	+ 2 46 40·61	...	40·54
734	6 17 51·298	51·290	51·323	− 17 54 6·63	7·32	6·80	1063	9 11 59·968	...	59·921	+ 37 16 3·16	...	3·45

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	Cape. 1890.	Gr. 1890.	B.J. 1890.	Cape. 1890.	Gr. 1890.	B.J. 1890.		Cape. 1890.	Gr. 1890.	B.J. 1890.	Cape. 1890.	Gr. 1890.	B.J. 1890.
	h m s	s	s	° ′ ″	″	″		h m s	s	s	° ′ ″	″	″
1065	9 12 50·520	50·473	50·529	+ 18 10 16·91	16·38	16·31	1406	12 14 16·681	16·631	16·665	— 0 3 19·54	19·63	20·07
1068	9 14 21·204	...	21·171	+ 34 51 26·29	...	26·04	1415	12 20 25·630	...	25·872	+ 39 37 44·47	...	43·84
1073	9 22 10·917	10·878	10·917	— 8 10 55·92	55·73	55·62	1425	12 24 10·360	10·322	10·398	— 15 54 10·78	11·14	11·41
1105	9 27 29·060	...	29·069	+ 36 53 7·95	...	8·05	1426	12 24 11·650	...	11·749	+ 21 30 18·39	...	19·18
1134	9 35 16·802	16·745	16·798	+ 10 23 32·43	32·50	32·78	1432	12 28 30·996	...	31·111	+ 41 57 19·14	...	18·72
1142	9 39 36·458	36·408	36·436	+ 24 16 49·31	49·33	49·47	1433	12 28 36·554	36·519	36·472	— 22 47 17·70	18·20	18·70
1153	9 45 41·456	...	41·478	— 3 43 41·36	...	41·28	1435	12 29 36·729	...	36·746	+ 18 58 57·68	...	57·79
1156	9 46 30·464	30·420	30·426	+ 26 31 28·47	28·87	28·88	1448	12 36 5·082	5·013	5·178	— 0 50 43·15	43·60	45·98
1163	9 50 56·765	...	56·796	+ 41 34 44·58	...	44·87	1449	12 36 5·333	5·157	...	— 0 50 46·92	48·91	...
1168	9 54 24·016	23·994	24·020	+ 8 34 18·04	17·93	18·07	1461	12 46 20·414	20·408	...	+ 28 8 21·16	21·73	...
1178	10 1 20·132	...	20·208	+ 17 17 55·42	...	55·43	1470	12 50 3·726	3·728	3·709	+ 3 59 42·97	43·17	43·29
1181	10 2 30·841	30·804	30·807	+ 12 30 16·83	16·44	16·46	1472	12 50	52·895	52·920	+ 38 54 45·06	45·09	45·31
1187	10 5 13·531	...	13·527	— 11 48 38·15	...	38·34	1478	12 56 42·062	42·056	42·072	+ 11 33 1·66	1·76	1·70
1195	10 10 27·617	...	27·709	+ 43 27 48·85	...	47·71	1487	13 4 15·238	15·216	15·232	— 4 57 5·79	5·92	5·68
1196	10 10 34·343	...	34·315	+ 23 57 55·01	...	55·17	1496	13 6 44·425	...	44·428	+ 28 26 9·18	...	9·16
1202	10 13 54·536	54·451	...	+ 20 23 51·85	51·39	...	1518	13 12 36·567	...	36·592	+ 41 9 6·18	...	6·51
1205	10 15 46·492	...	46·513	+ 42 3 9·16	...	8·72	1520	13 12 56·552	...	56·408	— 22 35 27·43	...	28·12
1213	10 20 46·223	46·152	46·222	— 16 16 29·85	30·62	30·22	1532	13 19 23·829	23·845	23·846	— 10 35 13·18	13·42	13·34
1216	10 21 31·314	..	31·325	+ 37 16 13·90	...	14·63	1557	13 29 5·280	5·233	5·254	— 0 1 59·91	59·87	59·71
1217	10 22 7·091	...	7·086	— 30 30 28·78	...	29·89	1560	13 29	...	53·047	+ 37 44 46·37	...	45·82
1226	10 27 1·133	1·135	1·157	+ 9 52 20·76	20·55	20·88	1575	13 35 50·281	50·250	...	— 8 8 52·13	52·00	...
1245	10 35 48·450	...	48·325	— 1 9 49·12	...	48·48	1585	13 42 2·084	2·057	2·104	+ 18 0 19·29	18·51	18·74
1248	10 37 26·112	...	26·076	+ 23 45 50·10	...	50·70	1591	13 43 53·682	...	53·661	— 17 35 9·26	...	10·26
1252	10 39 44·916	...	44·856	+ 31 15 40·92	...	41·81	1605	13 49 26·800	26·804	26·832	+ 18 56 57·47	57·29	57·90
1258	10 43 28·539	28·504	28·526	+ 11 7 37·42	36·75	37·35	1618	13 56 2·913	2·851	2·867	+ 2 4 37·50	37·71	36·81
1260	10 44 11·765	...	11·828	— 15 37 5·56	...	5·60	1621	13 56 11·221	...	11·232	+ 27 55 5·19	...	5·35
1266	10 47 9·560	...	9·553	+ 34 48 27·66	...	28·51	1637	14 5 22·931	...	22·944	+ 25 36 46·80	...	46·42
1279	10 54 52·775	52·756	...	+ 4 12 28·48	28·32	...	1642	14 7 1·658	1·606	1·670	— 9 45 41·11	41·32	41·22
1285	10 59 20·570	20·540	20·547	+ 7 55 49·72	49·84	50·16	1653	14 10 14·740	...	14·725	— 5 28 31·24	...	31·52
1294	11 3 28·715	...	28·712	+ 45 5 43·43	...	42·44	1654	14 12	...	12·104	+ 46 35 38·29	...	36·85
1297	11 6 14·835	...	14·841	— 22 13 31·36	...	32·01	1675	14 21 20·350	20·338	...	+ 19 43 17·88	18·18	...
1302	11 8 15·444	15·482	15·503	+ 21 7 34·27	34·62	34·84	1677	14 22 32·134	...	32·060	— 1 44 3·81	...	4·55
1303	11 8 28·047	...	28·049	+ 16 1 50·61	...	50·82	1682	14 27 5·344	5·329	5·365	+ 30 51 16·32	16·18	16·25
1306	11 12 18·869	...	18·830	+ 32 8 52·65	...	52·68	1685	14 27	...	38·910	+ 38 47 22·69	...	22·51
1307	11 12 32·187	...	32·345	+ 33 41 39·44	...	40·11	1703	14 34	...	44·601	+ 44 52 47·61	...	45·42
1311	11 13 50·467	50·415	50·429	— 14 11 0·02	0·14	0·62	1707	14 35 33·487	...	33·366	+ 16 53 24·89	...	23·80
1313	11 15 27·871	...	27·870	+ 6 37 55·20	...	55·41	1708	14 35 53·732	...	53·720	+ 14 12 1·61	...	1·74
1318	11 18 11·413	...	11·352	+ 11 8 5·97	...	6·43	1714	14 37 15·814	...	15·761	— 5 10 46·85	...	46·72
1320	11 19 23·215	...	23·155	— 17 4 48·08	...	47·81	1720	14 40 10·957	10·955	...	+ 27 32 18·14	17·70	...
1325	11 22 16·834	16·793	..	+ 3 27 42·91	42·86	...	1721	14 40 41·248	...	41·223	+ 2 21 24·20	...	24·23
1334	11 27 35·471	...	35·519	— 31 14 56·55	...	56·92	1730	14 44 36·117	...	36·101	— 15 32 21·96	...	23·27
1340	11 31 19·011	18·928	18·977	— 0 12 59·30	59·40	59·36	1731	14 44 47·558	47·561	47·562	— 15 35 3·42	3·88	4·05
1350	11 40	...	14·465	+ 48 23 22·59	...	21·44	1741	14 51 1·707	...	1·737	+ 14 53 28·13	...	28·68
1354	11 43 26·911	26·905	26·913	+ 15 11 12·67	12·71	13·05	1752	14 57 37·852	...	37·895	— 24 50 56·84	...	57·34
1356	11 44 57·899	57·868	57·889	+ 2 23 4·52	4·31	4·36	1753	14 57 48·108	48·133	48·154	+ 40 49 28·36	28·19	28·88
1368	11 55 14·188	14·145	...	+ 7 13 39·52	39·39	...	1756	14 59 43·917	43·937	43·919	+ 27 22 36·41	36·52	36·47
1374	11 59 36·343	36·322	36·354	+ 9 20 37·96	37·59	38·13	1770	15 5 57·081	57·008	57·066	— 19 22 29·40	30·26	30·48
1388	12 4 27·995	27·999	28·046	— 22 0 27·79	29·49	29·18	1780	15 9 43·265	...	43·302	+ 5 20 52·43	...	52·94
1399	12 10 8·892	...	8·938	— 16 55 52·37	...	51·85	1785	15 11 4·089	...	4·102	+ 33 43 32·15	...	31·98
1401	12 10	...	36·817	+ 41 16 22·11	...	21·49	1786	15 11 5·249	5·183	5·242	— 8 58 35·86	36·29	35·98

No.	Mean R.A. 1890·0.			Mean Dec. 1890·0.			No.	Mean R.A. 1890·0.			Mean Dec. 1890·0.		
	Cape. 1890.	Gr. 1890.	B.J. 1890.	Cape. 1890.	Gr. 1890.	B.J. 1890.		Cape. 1890.	Gr. 1890.	B J. 1890.	Cape. 1890.	Gr. 1890.	B.J. 1890.
	h m s	s	s	° ′ ″	″	″		h m s	s	s	° ′ ″	″	″
1798	15 16 53·640	53·603	...	− 14 44 26·89	28·24	...	2167	17 42 9·170	9·165	9·230	+ 27 47 7·46	7·42	7·12
1807	15 20	...	20·045	+ 37 45 48·46	...	47·24	2169	17 42	...	22·583	+ 2 44 55·90	...	56·98
1809	15 20 41·285	...	41·241	+ 15 48 54·37	...	55·29	2193	17 50 58·923	58·889	...	+ 26 4 4·59	4·39	...
1812	15 22 3·167	3·134	...	− 16 19 56·83	57·05	...	2197	17 52	...	28·786	+ 37 15 55·02	...	55·43
1815	15 23 17·572	...	17·651	+ 29 29 6·18	...	6·24	2199	17 52 58·220	...	58·226	− 9 45 34·05	...	33·29
1820	15 26 58·580	...	58·710	+ 41 12 30·39	...	29·62	2201	17 53 29·402	...	29·426	+ 29 15 35·83	...	35·64
1823	15 27	...	50·699	+ 41 16 23·52	...	22·30	2203	17 55 8·072	...	8·214	+ 2 56 15·03	...	14·73
1824	15 28 29·636	...	29·552	+ 31 43 50·46	...	50·34	2213	17 58 44·481	...	44·511	− 30 25 28·31	...	29·61
1828	15 29 22·370	...	22·391	− 14 25 19·69	...	19·54	2219	18 2 8·061	8·047	8·053	+ 9 32 55·22	55·00	55·21
1835	15 30 1·764	1·797	1·835	+ 27 5 6·00	6·95	6·70	2222	18 3 15·061	...	15·098	+ 28 44 51·61	...	51·63
1849	15 33 52·607	...	52·619	+ 40 42 42·27	...	42·16	2229	18 7 11·022	11·051	11·091	− 21 5 12·60	13·59	13·54
1851	15 35 14·181	...	14·090	+ 36 59 35·25	...	35·52	2238	18 12 13·424	...	13·351	+ 42 7 19·66	...	19·68
1860	15 38 7·356	...	7·408	+ 26 38 39·58	...	39·56	2245	18 15 37·082	37·022	37·036	− 2 55 36·47	36·98	36·27
1863	15 38 50·969	50·965	50·966	+ 6 46 19·45	19·37	19·40	2255	18 19 0·620	...	0·629	+ 21 43 12·39	...	12·06
1868	15 41 6·600	...	6·609	+ 15 45 58·99	...	59·44	2259	18 21 10·900	10·867	...	− 25 28 53·92	54·96	...
1872	15 43 47·318	...	47·308	+ 18 28 53·74	...	54·06	2279	18 33 12·711	12·821	12·854	+ 38 40 53·66	53·56	53·90
1873	15 43 52·761	...	52·733	− 3 5 35·32	...	35·03	2286	18 36 14·991	14·994	...	− 9 9 25·37	26·00	...
1880	15 45 19·926	19·929	19·921	+ 4 48 33·01	33·21	33·04	2297	18 40 41·676	...	41·654	+ 39 33 19·53	...	19·19
1894	15 51 22·323	22·321	22·303	+ 16 1 15·38	15·76	15·64	2298	18 40	...	44·076	+ 39 29 52·99	...	52·31
1900	15 53 2·005	...	1·991	+ 27 11 47·93	...	48·15	2301	18 40 55·649	...	55·645	+ 20 26 29·10	...	28·71
1901	15 53 49·699	...	49·738	− 22 18 29·18	...	29·54	2310	18 46 1·096	1·107	1·126	+ 33 14 6·71	6·87	7·37
1910	15 59 2·424	2·346	2·426	− 19 30 13·71	13·64	14·40	2316	18 48 26·636	...	26·663	− 26 25 57·62	...	57·91
1926	16 5 18·096	...	18·030	+ 45 13 25·17	...	24·78	2322	18 50 45·062	...	45·043	+ 4 3 39·21	...	39·98
1934	16 8 34·848	34·789	34·831	− 3 24 38·38	38·49	38·21	2328	18 54 37·780	37·761	37·804	+ 14 55 9·97	8·98	9·32
1943	16 12 30·039	...	30·035	− 4 25 26·02	...	26·48	2329	18 54 49·690	...	49·704	+ 32 32 19·46	...	20·46
1950	16·16	...	25·973	+ 46 34 31·81	...	31·93	2343	19 0 21·246	21·231	21·228	+ 13 42 0·60	1·24	1·18
1954	16 17 4·020	4·007	4·022	+ 19 24 42·60	42·42	42·56	2344	19 0 24·676	...	24·647	− 5 2 49·15	...	49·23
1968	16 22 39·743	39·722	39·747	− 26 11 13·86	15·09	14·89	2348	19 3 13·319	...	13·323	− 21 11 51·39	...	52·88
1974	16 25 21·922	21·868	21·917	+ 2 13 30·15	30·82	30·33	2351	19 3 22·522	...	22·618	+ 35 55 40·51	...	40·95
1975	16 25 29·473	...	29·430	+ 21 43 47·08	...	46·64	2367	19 12 32·777	...	32·943	+ 37 56 17·35	...	16·71
1982	16 30 33·352	...	33·412	+ 42 39 51·18	...	50·54	2368	19 12 39·178	39·157	39·189	+ 11 23 50·70	50·64	50·86
1983	16 31 6·057	6·053	6·074	− 10 20 37·46	37·55	37·62	2388	19 19 57·104	57·101	57·117	+ 2 53 45·16	45·13	45·07
2000	16 37 8·287	8·325	8·417	+ 31 48 7·03	7·90	8·79	2401	19 24 7·606	7·675	...	+ 24 26 33·08	32·80	...
2001	16 39 7·520	...	7·517	+ 39 7 54·27	...	54·49	2407	19 26 17·078	...	17·102	+ 27 43 44·30	...	43·86
2025	16 47 4·347	...	4·372	+ 15 9 33·20	...	33·15	2418	19 30 0·782	0·788	0·746	− 25 7 32·13	32·87	32·86
2042	16 52 27·670	27·654	27·660	+ 9 32 47·35	47·02	47·62	2431	19 33	...	29·502	+ 49 57 58·75	...	59·46
2048	16 56 4·823	4·797	4·855	+ 31 5 19·02	19·56	19·26	2432	19 34 25·251	25·239	...	− 16 32 41·44	41·92	...
2058	17 0 16·608	...	16·618	+ 12 53 32·18	...	32·30	2447	19 41 1·790	1·764	1·787	+ 10 20 44·03	43·69	44·11
2065	17 4 4·129	4·097	4·131	− 15 35 17·14	17·34	17·35	2450	19 41 32·139	...	32·245	+ 44 51 45·67	...	44·71
2067	17 4	...	11·385	+ 40 39 36·35	...	36·35	2453	19 42 28·959	...	28·945	+ 18 15 47·48	...	48·19
2082	17 9 37·880	37·864	37·888	+ 14 30 57·93	58·14	57·75	2459	19 45 24·937	24·937	24·967	+ 8 34 41·68	40·88	41·41
2089	17 10 30·791	...	30·793	+ 24 58 9·14	...	9·44	2461	19 46 52·257	...	52·127	+ 0 43 26·17	...	25·41
2091	17 11 12·960	...	12·941	+ 36 56 0·32	...	0·02	2473	19 49 54·582	54·544	54·572	+ 6 7 56·52	56·68	56·70
2102	17 15 15·170	15·142	15·208	− 24 53 20·50	21·05	21·44	2481	19 53 51·917	...	51·901	+ 19 11 37·79	...	37·66
2117	17 21 3·395	3·364	...	+ 4 14 10·98	11·37	...	2486	19 55 53·604	53·587	...	− 28 0 54·19	55·18	...
2124	17 23	...	49·233	+ 48 21 10·51	...	8·69	2508	20 5 37·739	37·713	37·713	− 1 8 50·23	50·35	50·59
2136	17 29 49·652	49·662	49·679	+ 12 38 25·95	25·90	26·00	2516	20 10 9·945	...	10·080	+ 46 24 28·45	...	28·33
2138	17 31 17·237	...	17·252	− 15 19 43·07	...	43·22	2518	20 11 33·046	...	33·026	− 12 50 51·50	...	51·67
2151	17 36	...	21·621	+ 46 3 54·69	...	54·17	2520	20 11 57·092	57·066	57·068	− 12 53 6 57	8·04	7·41
2156	17 38 2·291	2·268	2·283	+ 4 36 49·30	49·63	49·63	2521	20 12 4·736	...	4·664	+ 24 19 57·22	...	56·45

No.	Mean R.A. 1890·0.			Mean Dec. 1890·0.			No.	Mean R.A. 1890·0.			Mean Dec. 1890·0.		
	Cape. 1890.	Gr. 1890.	B.J. 1890.	Cape. 1890.	Gr. 1890.	B.J. 1890.		Cape. 1890.	Gr. 1890.	B.J. 1890.	Cape. 1890.	Gr. 1890.	B.J. 1890.
	h m s	s	s	° ′ ″	″	″		h m s	s	s	° ′ ″	″	″
2524	20 14 49·877	49·797	49·852	− 15 7 41·54	41·43	42·04	2768	22 1 53·402	53·372	53·407	+ 24 48 28·98	29·44	28·47
2534	20 18 16·730	...	16·858	+ 39 54 17·30	...	17·59	2771	22 4 21·170	...	21·202	+ 32 38 6·11	...	6·54
2542	20 22 35·165	35·164	35·186	− 18 10 36·42	37·11	36·80	2773	22 4 39·065	...	39·062	+ 5 39 24·43	...	24·68
2550	20 27 57·440	57·428	57·455	+ 10 55 46·87	46·57	46·87	2775	22 5 6·107	...	6·128	+ 32 38 18·89	...	19·32
2561	20 32 23·429	...	23·419	+ 14 12 46·03	...	45·93	2789	22 11 1·742	1·706	1·754	− 8 19 50·68	51·44	51·01
2564	20 33 47·180	...	47·199	+ 9 41 57·01	...	56·49	2797	22 15 58·453	58·429	58·465	− 1 56 28·92	29·10	29·31
2565	20 33 47·281	...	47·268	− 18 31 31·85	...	31·74	2798	22 16 6·174	...	6·192	+ 11 39 4·04	...	3·83
2566	20 34 31·683	31·687	31·713	+ 15 31 27·61	27·45	27·37	2814	22 24 49·550	49·498	...	− 11 14 26·31	26·36	...
2570	20 37	40·895	40·933	+ 44 53 15·58	14·97	14·79	2821	22 26	...	45·577	+ 49 43 2·56	...	1·06
2571	20 38 19·414	...	19·403	+ 14 40 48·67	...	49·06	2828	22 29 42·242	42·170	42·217	− 0 41 3·45	3·57	3·75
2580	20 41 33·315	...	33·305	+ 15 43 41·22	...	41·29	2836	22 34 19·430	...	19·530	+ 38 28 40·05	...	40·21
2581	20 41 43·267	43·249	43·262	− 9 53 52·95	53·49	53·37	2840	22 35 58·509	58·506	58·552	+ 10 15 26·26	25·88	25·76
2582	20 41 45·598	...	45·636	+ 33 33 30·19	...	30·37	2845	22 37 50·688	...	50·759	+ 29 38 45·24	...	45·61
2587	20 43	...	7·415	+ 36 5 11·65	...	12·14	2850	22 41 13·920	...	13·962	+ 22 59 12·90	...	12·84
2599	20 46 43·223	43·210	...	− 9 23 44·22	44·44	...	2853	22 43 46·044	...	46·052	− 14 10 22·51	...	23·82
2603	20 49 52·258	52·295	52·330	+ 27 38 21·87	22·18	21·93	2854	22 44 41·589	41·612	41·639	+ 24 1 15·03	15·39	14·89
2615	20 53 4·263	...	4·347	+ 40 44 37·24	...	38·02	2859	22 46 52·523	52·507	52·518	− 8 9 53·40	53·96	53·67
2629	20 59 45·761	45·803	...	− 17 40 10·26	10·98	...	2864	22 48 48·761	...	48·718	− 16 24 20·38	...	20·61
2632	21 0	...	55·823	+ 43 29 20·92	...	20·68	2870	22 51 34·287	34·288	34·275	− 30 12 18·45	19·44	19·11
2635	21 1	57·970	57·871	+ 38 12 31·79	30·82	30·99	2875	22 56 51·601	...	51·603	+ 41 44 5·52	...	5·44
2644	21 3 36·118	...	36·119	− 11 49 0·04	...	0·48	2879	22 58 26·503	...	26·493	+ 27 29 10·41	...	9·93
2651	21 8 15·234	15·265	15·257	+ 29 46 33·38	33·42	33·10	2880	22 59 16·819	16·850	16·870	+ 14 36 48·47	48·53	48·66
2656	21 10 19·499	19·480	19·487	+ 4 47 36·03	36·20	36·06	2891	23 3 34·888	...	34·901	− 21 46 9·63	...	9·99
2657	21 10	...	24·004	+ 37 34 33·17	...	33·95	2906	23 11 27·758	27·730	27·742	+ 2 40 52·53	52·27	52·59
2673	21 16 59·934	...	59·922	+ 19 20 3·15	...	2·81	2911	23 15 11·511	...	11·537	+ 23 8 17·90	...	17·39
2679	21 20 23·204	...	23·209	− 22 53 14·05	...	15·82	2923	23 19 53·305	...	53·300	+ 22 47 54·79	...	54·67
2687	21 25 23·273	...	23·362	+ 46 3 20·59	...	19·80	2927	23 21 17·607	17·574	17·581	+ 0 39 12·28	12·34	12·19
2690	21 25 46·058	46·056	46·077	− 6 3 17·06	17·74	17·48	2932	23 23 35·465	...	35·459	+ 12 9 13·18	...	12·87
2705	21 31 53·794	53·731	...	− 8 20 50·07	49·94	...	2943	23 28 29·747	...	29·725	+ 30 43 5·37	...	5·29
2707	21 32 32·207	...	32·405	+ 39 55 10·34	...	9·63	2948	23 32	...	10·886	+ 45 51 44·07	...	43·55
2712	21 33 59·775	...	59·788	− 17 9 31·72	...	32·01	2949	23 32	...	44·513	+ 42 39 33·35	...	32·35
2719	21 38 46·974	46·944	47·003	+ 9 22 15·22	14·82	15·27	2951	23 34 17·536	17·479	17·528	+ 5 1 48·24	47·96	48·01
2723	21 39 39·826	...	39·791	+ 25 8 22·89	...	22·44	2954	23 34	...	59·447	+ 43 43 29·02	...	29·44
2725	21 40 36·795	...	36·874	− 11 52 22·82	...	23·87	2957	23 37 1·050	...	1·065	− 15 9 11·13	...	11·44
2726	21 40 58·152	58·117	58·165	− 16 37 34·01	34·82	34·59	2971	23 43 11·711	11·775	11·679	− 28 44 19·07	19·88	19·12
2734	21 42 43·642	...	43·796	+ 48 48 3·63	...	2·23	2978	23 46 53·488	...	53·482	+ 18 30 34·20	...	33·32
2743	21 48 3·358	3·365	3·428	+ 25 24 27·17	28·08	27·79	2995	23 53 39·755	39·707	39·736	+ 6 15 15·29	15·58	15·52
2756	21 55 43·802	...	43·834	+ 12 35 35·33	...	35·08	3003	23 58 6·223	6·269	...	− 17 56 53·80	55·32	...
2763	22 0 8·019	7·996	8·024	− 0 51 14·66	14·45	14·50							
2764	22 0 29·770	...	29·748	− 14 24 10·96	...	11·35							

COMPARISON OF CAPE CATALOGUE 1890 WITH CAPE 1880, MELBOURNE 1880, GREENWICH 1880, CAPE 1885 AND RADCLIFFE 1890.

No.	Mag.	Mean R.A. 1890·0.						Mean Dec. 1890·0.					
		Cape. 1890	Cape. 1880.	Melbourne. 1880.	Greenwich. 1880.	Cape. 1885.	Radcliffe. 1890.	Cape. 1890.	Cape. 1880.	Melbourne. 1880.	Greenwich. 1880.	Cape. 1885.	Radcliffe. 1890.
		h m s	s	s	s	s	s	° ′ ″	″	″	″	″	″
1*	5·8	0 0 3·096	...	...	3·142	...	...	+ 12 47 2·47	...	...	2·26	...	...
3	5·6	0 37·379	36·35	...	...	...	...	— 49 41 11·46	11·18	...	...	...	...
4	6·9	1 44·169	43·82	...	...	...	...	— 25 57 53·40	53·58	...	...	...	...
5	5·6	2 27·981	28·04	27·95	...	...	...	— 34 8 30·59	30·73	29·98	...	...	...
6	7·3	...	...	...	...	...	...	— 79 12 40·83	40·58	...	...	...	...
7*	2·1	2 42·063	42·04	42·04	42·078	42·089	42·089	+ 28 28 58·64	58·35	58·67	59·14	59·03	59·55
8	7·4	2 48·473	48·11	...	...	48·47	...	— 86 39 5·33	5·95	...	...	4·92	...
9	6·4	2 56·462	...	...	56·454	...	56·404	— 18 11 20·67	...	...	21·20	...	20·89
10*	7·4	3 4·952	...	...	4·870	...	4·857	— 2 50 6·30	...	...	5·75	...	5·76
12*	5·7	3 21·943	...	...	21·978	...	...	+ 17 36 0·99	...	...	1·04	...	...
13*	3·9	3 49·613	49·59	...	...	49·580	...	— 46 21 15·76	15·72	...	...	16·01	...
14*	4·9	...	...	...	...	...	...	+ 45 27 36·68	...	...	35·77	...	36·22
15*	5·3	5 2·154	1·90	2·28	...	2·15	...	— 82 50 8·22	9·76	8·84	...	8·58	...
16*	5·5	5 59·206	59·15	...	59·278	59·270	...	— 28 24 45·09	45·30	...	45·62	44·93	...
17*	5·1	6 8·418	8·33	...	...	...	...	— 35 44 56·18	56·88	...	...	...	...
18*	3·0	7 34·248	34·24	34·23	34·231	34·256	34·284	+ 14 34 18·72	19·42	19·23	18·65	19·21	19·58
19	7·3	8 24·538	24·43	...	...	...	...	+ 57 36 46·55	47·73	...	...	...	...
20*	5·8	9 7·807	8·54	8·07	...	...	...	— 85 36 22·65	24·83	23·13	...	...	...
21	5·4	9 17·605	17·51	...	17·560	...	17·530	— 10 10 52·19	51·35	...	51·73	...	51·81
22	6·4	9 24·951	24·97	...	...	...	...	— 35 30 56·07	56·07	...	...	...	...
23	5·9	9 28·338	...	...	28·339	...	...	+ 26 40 19·75	...	...	19·77	...	...
24	6·0	...	...	...	...	...	...	+ 42 59 3·54	...	...	3·13	...	...
25	5·5	10 35·062	34·79	...	...	...	...	— 32 3 26·29	25·87	...	...	...	...
26	6·7	11 6·990	3·87	...	...	...	...	— 80 27 39·95	38·57	...	...	...	...
27	7	11 23·917	23·59	...	...	...	...	— 53 16 6·25	9·09	...	...	...	...
28*	4·7	12 34·783	...	...	34·903	...	34·781	+ 36 10 31·20	...	...	31·15	...	30·65
29*	7·2	12 38·768	38·40	38·13	...	39·47	...	— 88 58 28·65	28·30	28·73	...	28·08	...
30*	3·6	13 49·377	49·32	49·37	49·357	49·356	49·332	— 9 26 1·30	2·22	1·82	2·20	1·48	1·23
31*	4·3	14 20·046	20·18	...	...	20·035	...	— 65 31 16·51	17·44	...	...	16·72	...
32*	5·3	15 19·633	...	...	19·669	...	...	+ 37 21 33·12	...	...	33·30	...	...
33	7·5	15 45·248	45·22	...	...	...	...	— 36 24 29·52	28·04	...	...	...	...
34	5·5	15 59·451	59·36	...	59·439	59·468	59·467	— 29 35 23·00	23·37	...	24·68	22·41	23·04
35	6·6	17 42·221	42·05	42·18	...	...	...	— 31 38 45·78	46·18	45·04	...	...	...
37*	5·8	19 45·845	...	...	45·789	45·826	45·782	+ 1 19 50·07	...	...	49·34	49·74	49·39
38*	2·9	19 57·777	57·60	57·69	...	57·672	...	— 77 52 25·35	25·91	25·68	...	25·52	...
40	7·3	20 26·972	26·88	...	...	...	...	— 31 21 27·47	28·45	...	...	...	...
41	4·0	20 47·499	47·54	...	...	47·485	...	— 44 17 24·88	25·06	...	...	25·40	...
42*	2·5	20 50·741	50·65	...	...	50·737	...	— 42 54 12·14	13·29	...	...	12·24	...
44	6·5	21 43·920	43·74	...	...	...	...	— 26 9 20·88	21·29	...	...	...	...
45	6·8	22 45·591	45·46	...	...	...	...	— 29 38 53·76	53·66	...	...	...	...
46*	6·2	24 25·508	25·44	25·46	25·450	25·495	25·477	— 4 33 54·65	54·99	54·05	55·07	54·63	53·54
47*	5·2	24 52·641	52·58	52·52	52·660	52·601	52·573	— 24 23 46·73	46·26	46·34	46·90	46·28	45·99
48	6·5	25 5·338	5·24	...	...	...	...	— 41 32 53·61	54·53	...	...	...	...
50*	4·8	26 6·485	6·45	...	...	...	...	— 49 24 42·91	43·86	...	...	...	...
51	4·5	26 29·991	29·70	...	...	29·918	...	— 63 33 51·35	50·28	...	...	51·20	...

No.	Mag.	Mean R.A. 1890·0.						Mean Dec. 1890·0.					
		Cape. 1890.	Cape. 1880.	Melbourne. 1880.	Greenwich. 1880.	Cape. 1885.	Radcliffe. 1890.	Cape. 1890.	Cape. 1880.	Melbourne. 1880.	Greenwich. 1880.	Cape. 1885.	Radcliffe. 1890.
		h m s	s	s	s	s	s	° ′ ″	″	″	″	″	″
52	4·3	0 26 30·606	30·38	...	...	30·543	...	— 63 34 18·28	17·13	...	...	18·36	...
53	5·1	27 42·856	42·64	...	...	...	...	— 63 38 15·11	13·50	...	...	...	...
54	6·8	28 9·356	9·48	...	...	...	...	— 38 43 11·98	11·61	...	...	...	...
55*	5·6	28 14·549	14·46	...	...	...	14·378	— 30 9 52·22	52·52	...	...	...	51·86
56*	5·4	29 13·660	13·55	...	...	...	...	— 52 58 51·51	51·28	...	...	...	...
57*	5·3	29 35·203	35·13	...	...	35·106	35·125	— 4 11 54·59	54·46	...	...	54·49	54·29
59*	4·4	31 0·389	...	...	0·275	0·306	0·314	+ 33 6 48·36	...	...	49·27	48·29	49·99
61*	5·6	31 41·663	41·49	...	41·617	...	...	— 25 22 20·99	22·18	...	22·92	...	...
62	8·1	31 56·910	56·87	...	...	...	...	— 70 2 19·36	19·47	...	...	...	...
64*	4·6	32 44·518	44·52	...	44·531	44·567	44·574	+ 28 42 52·17	52·55	...	51·46	53·99	52·17
65*	3·4	33 26·717	...	...	26·663	26·737	...	+ 30 15 31·79	...	...	32·26	31·40	...
66*	6·4	34 37·256	37·03	37·17	...	...	...	— 45 24 5·07	6·23	3·73	...	...	...
67*	4·6	36 7·591	7·39	...	...	7·511	...	— 46 41 20·30	20·62	...	...	20·61	...
68	8·0	36 28·143	27·44	...	...	...	...	— 85 51 22·04	21·64	...	...	...	...
71*	7·0	37 25·176	25·22	...	...	...	25·095	— 4 27 33·57	33·51	...	...	...	33·44
72	5·4	37 46·095	46·19	...	...	...	...	— 66 4 21·25	22·26	...	...	...	...
73*	2·1	38 4·061	3·99	3·99	4·032	4·023	3·987	— 18 35 25·95	25·86	25·64	26·17	25·75	25·48
74*	4·5	38 24·540	24·59	...	...	...	...	— 58 3 59·10	60·04	...	...	...	...
76	7·7	38 44·641	47·02	...	...	...	...	— 86 0 55·22	55·52	...	...	...	...
77*	5·8	38 52·959	52·85	...	...	...	...	— 39 1 40·19	40·32	...	...	...	...
78*	5·2	39 17·783	17·77	...	17·812	...	17·705	— 22 36 39·41	39·22	...	39·78	...	39·01
79	6·8	39 45·838	43·18	...	...	44·28	...	— 86 18 14·55	14·37	...	...	14·61	...
80*	4·4	41 30·471	..	...	30·488	30·543	...	+ 23 40 7·69	...	...	6·59	7·53	...
81	7·7	42 28·400	.	...	...	...	28·397	+ 8 37 17·02	...	...	...	...	16·87
82*	9·0	42 34·150	...	...	...	...	34·112	+ 9 39 30·74	...	...	...	...	31·59
83	5·5	42 34·440	34·40	...	34·441	...	...	— 22 19 22·36	22·21	...	22·53	...	...
84*	5·7	42 36·789	36·77	36·78	...	...	...	+ 4 42 53·42	54·47	53·40	...	...	...
85*	4·6	42 58·507	58·38	58·49	58·455	58·500	58·487	+ 6 59 10·71	10·71	11·42	10·25	10·71	11·67
86	7·5	43 44·750	44·89	...	...	...	...	— 36 51 50·39	50·29	...	...	...	...
87*	4·4	43 45·027	...	...	44·821	...	...	+ 40 28 46·97	...	...	46·82	...	...
88*	8·6	44 27·520	...	...	...	...	27·503	+ 11 13 55·12	...	...	...	...	55·78
89*	5·3	44 37·048	37·07	36·96	...	36·986	36·939	— 11 14 12·22	12·76	13·66	...	12·52	12·19
90*	5·0	44 46·299	46·13	...	...	46·327	...	— 75 31 20·58	21·22	...	...	19·93	...
91	8·5	44 49·850	...	...	...	...	49·830	+ 9 48 44·23	...	...	...	...	44·95
93	5·0	45 40·481	40·60	40·49	...	...	...	— 51 35 14·46	14·93	14·40	...	...	...
94	8·2	45 45·175	43·53	44·74	...	...	...	— 86 29 32·19	32·71	32·08	...	...	...
95*	7·0	45 49·301	...	...	...	...	49·271	+ 12 11 11·76	...	...	...	...	11·66
96*	8·3	46 23·551	...	...	...	...	23·512	+ 10 0 12·63	...	...	...	...	12·27
97*	7·3	46 43·220	...	...	...	...	43·206	+ 13 3 3·17	...	...	...	...	3·55
98*	8·3	47 3·850	...	...	...	...	3·752	+ 9 12 24·88	...	...	...	...	25·07
99	5·7	47 16·581	16·56	...	16·560	...	16·398	— 24 36 18·01	18·12	...	19·49	...	17·13
100*	5·0	47 23·179	23·05	...	23·099	23·160	23·122	— 1 44 30·35	30·56	...	30·38	29·21	30·49
101*	8·4	48 6·130	...	...	...	...	6·055	+ 10 31 31·78	...	...	...	...	31·91
102	5·6	49 3·054	2·97	...	...	...	...	— 63 28 7·67	7·45	...	...	...	...
103*	5·4	49 4·688	...	...	4·659	...	...	+ 23 1 57·09	...	...	56·50	...	...
104*	8·2	49 15·110	...	...	...	...	15·086	+ 12 15 4·16	...	...	...	...	4·68
105	6·0	50 8·910	8·89	...	8·828	...	8·760	— 7 56 33·44	31·47	...	31·26	...	30·77
106	6·8	50 11·522	11·59	...	...	...	...	— 47 59 49·09	47·92	...	...	...	...
107	6·5	50 22·860	...	...	...	...	22·896	+ 13 21 21·54	...	...	...	...	21·64
108*	3·9	50 38·839	...	38·85	38·815	38·917	38·830	+ 37 54 9·48	...	8·47	9·22	9·52	9·77

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		Cape. 1890.	Cape. 1880.	Melbourne. 1880.	Greenwich. 1880.	Cape. 1885.	Radcliffe. 1890.	Cape. 1890.	Cape. 1880.	Melbourne. 1880.	Greenwich. 1880.	Cape. 1885.	Radcliffe. 1890.
		h m s	s	s	s	s	s	° ′ ″	″	″	″	″	″
109	8·8	0 50 43·540	...	...	...	...	43·584	+ 12 7 3·05	...	...	...	...	3·91
110*	5·4	50 53·554	53·51	...	...	...	...	− 70 7 19·40	19·43	...	...	...	...
113	8·2	51 36·070	...	...	...	...	36·077	+ 11 50 5·50	...	...	...	...	5·65
114	6·0	52 8·160	...	...	8·198	...	8·167	+ 13 6 3·61	...	...	3·30	...	4·27
115	7·8	52 45·384	45·44	...	...	45·462	...	− 52 51 41·24	41·35	...	...	41·83	...
116	9·0	53 9·061	9·06	...	...	9·074	...	− 52 21 8·08	8·99	...	...	7·90	...
117	6·7	53 11·467	...	...	...	...	11·461	− 6 28 28·91	...	...	...	...	28·23
118*	4·1	53 18·288	18·08	...	18·255	18·282	...	− 29 57 7·75	7·76	...	7·88	7·54	...
120	7·3	53 50·918	50·83	...	...	50·918	...	− 51 51 34·66	34·95	...	...	34·68	...
121	8·5	53 56·980	...	...	...	...	56·890	+ 14 0 57·94	...	...	...	...	57·39
122	7·5	54 16·057	15·96	...	...	...	...	− 77 8 56·21	56·19	...	...	...	...
123	6·9	55 24·131	24·08	...	...	...	...	− 36 49 52·35	53·09	...	...	...	...
124*	8·2	55 28·770	...	...	...	...	28·756	+ 10 35 18·39	...	...	...	...	18·13
125*	8·0	55 36·010	...	...	...	...	35·980	+ 11 19 10·60	...	...	...	...	10·46
126*	8·0	56 23·746	...	...	23·630	...	...	+ 7 20 50·39	...	...	50·05	...	...
128	6·9	56 47·728	47·62	...	...	...	...	− 61 27 20·01	21·88	...	...	...	...
129*	8·5	57 12·900	...	...	...	...	12·916	+ 15 32 46·10	...	...	...	...	47·30
130*	4·5	57 14·022	14·00	13·98	14·023	14·010	14·013	+ 7 17 51·87	52·04	52·37	51·46	52·15	52·88
131*	7·8	57 19·520	...	...	...	...	19·551	+ 12 27 29·40	...	...	...	...	29·64
132*	5·9	57 22·621	22·53	22·43	...	...	...	− 57 35 41·62	42·22	41·70	...	...	...
133*	8·7	58 3·719	...	...	...	...	3·654	+ 13 20 45·58	...	...	...	...	46·73
136*	6·0	59 16·910	...	...	16·883	...	16·965	+ 14 21 15·32	...	...	15·31	...	16·01
137	7·0	0 59 29·104	29·07	...	...	...	...	− 48 31 52·25	52·16	...	...	...	...
138	9·0	1 0 0·190	...	...	...	...	0·187	+ 14 23 34·71	...	...	...	...	35·25
140*	8·5	0 32·780	...	...	...	...	32·807	+ 15 43 29·11	...	...	...	...	30·19
141*	5·4	0 33·993	34·01	...	34·017	34·027	33·950	− 10 25 43·82	43·35	...	44·49	...	43·14
142	6·3	0 48·060	48·01	...	...	...	47·892	− 24 34 49·61	49·69	...	...	...	48·86
143*	3·4	1 10·416	(10·10)	...	...	10·389	...	− 47 18 28·48	28·43	...	...	29·65	...
145*	8·0	2 2·739	...	...	...	...	2·744	+ 15 16 34·21	...	...	...	...	34·35
146	8·0	2 5·370	...	...	...	...	5·350	+ 16 49 29·74	...	...	...	...	30·36
148*	8·6	2 38·050	...	...	...	...	38·093	+ 17 4 0·03	...	...	...	...	1·10
149*	5·2	2 57·130	57·19	...	...	...	...	− 62 21 46·72	46·63	...	...	...	...
150*	3·6	3 3·334	3·23	3·36	...	3·341	3·260	− 10 45 55·65	55·60	55·63	...	55·70	54·66
151*	2·2	3 34·323	34·49	34·33	34·351	34·407	34·408	+ 35 2 13·62	15·86	13·98	14·11	14·75	14·76
152	4·1	3 45·623	45·61	...	...	45·620	...	− 55 50 2·28	2·67	...	...	2·90	...
154	6·4	4 21·420	...	...	21·457	...	21·546	+ 15 5 18·89	...	...	18·18	...	18·54
156	8·8	5 7·010	...	...	...	...	7·168	+ 17 48 25·48	...	...	...	...	26·09
159*	4·7	5 36·113	...	...	36·083	36·139	...	+ 29 30 19·39	...	...	19·77	19·34	...
160	6·8	5 44·563	44·82	...	...	...	...	− 57 26 49·16	47·35	...	...	...	...
162*	5·9	7 41·308	41·13	...	...	...	...	− 38 26 22·94	22·48	...	...	...	...
163*	6·0	8 17·029	...	...	17·055	...	17·131	+ 15 33 3·91	...	...	3·39	...	4·49
164*	4·9	10 13·187	13·24	13·13	...	...	...	− 46 7 9·13	9·97	8·78	...	...	...
165	8·3	10 18·990	...	...	...	...	19·050	+ 17 3 12·51	...	...	...	...	13·00
167	7·3	10 36·660	36·39	...	...	...	36·520	− 24 33 16·92	17·73	...	...	...	17·31
169	8·8	11 37·600	...	...	...	...	37·535	+ 15 46 26·38	...	...	...	...	26·94
170*	5·5	12 2·209	2·28	...	...	2·153	...	− 69 27 37·51	38·39	...	...	37·97	...
171*	5·1	12 7·510	...	...	7·468	7·529	...	+ 3 2 6·17	...	...	4·86	6·25	...
172*	8·0	12 29·299	...	...	...	...	29·291	+ 17 59 50·51	...	...	...	...	51·31
173	7·5	13 22·373	22·35	...	...	...	...	− 52 41 7·14	7·43	...	...	...	...
174*	4·7	13 25·210	...	...	...	25·226	...	+ 26 41 8·00	...	...	...	7·51	...

No.	Mag.	Mean R.A. 1890·0.						Mean Dec. 1890·0.					
		Cape. 1890.	Cape. 1880.	Melbourne. 1880.	Greenwich. 1880.	Cape. 1885.	Radcliffe. 1890.	Cape. 1890.	Cape. 1880.	Melbourne. 1880.	Greenwich. 1880.	Cape. 1885.	Radcliffe. 1890.
		h m s	s	s	s	s	s	° ′ ″	″	″	″	″	″
177*	6·3	1 14 10·815	10·71	...	...	10·854	10·794	— 1 5 13·23	12·12	...	...	11·65	12·17
179	7·0	15 14·061	14·15	...	...	...	...	— 36 49 12·37	11·84	...	...	...	...
181	7·5	17 18·986	19·18	...	...	...	...	— 73 19 34·37	34·77	...	...	...	...
182	6·9	18 7·852	8·05	...	...	...	...	— 66 57 34·68	34·23	...	...	...	...
183*	5·5	18 23·811	23·71	23·68	...	...	...	— 31 31 8·56	9·06	8·02	...	...	...
184*	3·8	18 31·514	31·46	31·45	31·443	31·491	31·458	— 8 45 4·42	4·13	3·29	4·41	3·89	4·41
185	6·5	19 36·801	36·61	...	...	...	...	— 34 42 53·80	54·32	...	...	...	...
186	6·3	19 55·265	55·32	...	...	...	...	— 45 6 5·59	5·07	...	...	...	...
187*	5·3	20 12·652	12·69	...	...	...	12·582	— 15 10 16·38	15·65	...	...	...	16·31
189*	5·8	21 17·000	16·95	...	...	...	...	— 64 56 29·98	30·08	...	...	...	...
190*	5·8	21 25·886	25·90	...	...	25·857	25·862	— 13 37 42·39	42·32	...	...	40·64	42·87
192	6·7	22 43·326	43·29	...	...	...	43·191	— 22 36 27·05	27·75	...	...	...	27·70
193*	3·3	23 35·258	35·33	...	...	35·178	...	— 43 52 54·81	55·62	...	...	55·39	...
194*	5·1	24 19·559	19·49	19·34	...	19·487	19·352	— 22 11 54·28	55·08	53·87	...	54·38	54·81
195*	5·2	24 25·266	25·35	...	25·273	...	25·256	+ 5 34 35·19	36·42	...	35·40	...	35·69
197	6·1	25 11·831	11·75	...	...	...	...	— 26 46 33·70	33·84	...	...	...	...
198*	3·7	25 35·810	35·79	35·75	35·760	35·863	35·835	+ 14 46 42·57	42·69	43·28	42·48	43·10	43·36
200	5·6	26 38·111	38·06	38·00	...	...	...	— 30 50 52·76	52·16	51·10	...	...	...
201*	3·9	26 40·214	40·30	...	...	40·249	...	— 49 38 40·19	39·41	...	...	40·75	...
202	6·7	29 38·880	38·78	...	...	...	38·692	— 24 15 49·19	50·44	...	...	...	49·31
203*	6·4	29 43·839	...	...	43·767	...	...	+ 48 9 39·17	...	...	38·61	...	...
204	7·5	29 47·080	46·93	...	...	...	...	— 35 54 29·98	29·36	...	...	...	...
205*	4·2	30 20·278	...	...	20·435	...	...	+ 40 51 17·45	...	...	18·25	...	...
207*	3·7	31 14·288	...	14·51	14·422	14·463	...	+ 48 4 14·62	...	19·55	13·91	17·01	...
208*	5·6	31 16·010	...	...	15·990	16·033	16·013	+ 11 34 43·54	...	...	43·18	43·05	44·20
211*	6·0	32 55·652	55·61	55·77	...	55·773	...	— 79 3 47·46	47·11	46·90	...	47·04	...
212	5·9	33 34·266	34·19	...	...	...	...	— 37 5 2·88	1·13	...	...	...	...
213*	0·5	33 37·018	37·00	36·91	...	37·011	...	— 57 47 45·71	45·07	43·95	...	43·68	...
214	6·6	33 40·287	40·12	...	...	...	40·125	— 25 34 54·23	54·95	...	...	...	55·25
215*	6·1	33 44·694	...	...	44·625	..	44·758	+ 15 50 50·60	...	...	50·51	...	51·46
216	6·7	33 49·297	49·27	49·13	...	...	...	— 43 29 12·65	12·12	10·87	...	...	...
218	6·1	35 10·213	...	...	10·181	...	...	+ 25 11 23·41	...	...	24·00	...	...
219*	4·7	35 42·376	42·33	42·34	42·349	42·366	42·388	+ 4 55 50·40	50·45	51·00	50·58	50·60	51·15
220	8·0	36 36·797	36·72	...	...	...	...	— 61 33 20·17	20·33	...	...	...	...
222*	5·7	37 12·013	12·02	...	...	...	...	— 37 23 14·57	14·86	...	...	...	...
223	6·7	37 17·791	17·73	...	...	...	...	— 50 35 38·20	38·60	...	...	...	...
224*	3·6	38 57·458	57·39	57·34	57·451	57·397	57·333	— 16 30 61·10	61·31	59·96	61·91	60·81	61·19
225*	4·4	39 35·084	35·02	35·04	35·031	35·061	35·060	+ 8 36 14·21	13·65	14·69	13·48	14·50	14·38
226*	5·7	40 28·046	28·01	27·93	...	27·972	27·941	— 6 17 1·76	2·00	1·40	...	1·86	1·98
227*	5·3	40 29·617	29·56	29·45	29·627	29·558	...	— 25 36 9·53	9·38	9·30	10·12	8·82	...
228*	5·9	40 52·074	52·26	52·57	...	...	...	— 83 32 4·87	7·07	5·31	...	...	...
229*	6·1	41 18·093	17·18	...	...	...	...	— 79 42 9·10	9·79	...	...	...	...
230	5·4	41 47·171	47·12	46·80	...	...	...	— 51 21 59·13	59·34	58·25	...	...	...
231*	5·1	41 54·660	54·48	...	...	54·573	...	— 54 4 28·37	28·55	...	...	27·78	...
233*	5·6	43 47·991	48·06	47·85	...	48·09	...	— 85 19 29·92	29·99	29·31	...	29·63	...
234*	3·9	46 1·839	1·75	1·74	1·830	1·809	1·655	— 10 52 43·52	43·19	43·13	43·97	43·10	43·29
235*	3·6	46 48·632	...	...	48·615	...	...	+ 29 2 32·74	...	...	33·42	...	...
236*	5·0	47 29·653	...	...	29·603	...	...	+ 18 45 14·64	...	...	14·47	...	...
237*	5·2	47 29·674	...	...	29·632	29·574	...	+ 18 45 23·39	...	...	23·26	22·66	...
238*	4·7	47 51·634	...	51·57	...	51·637	...	+ 2 38 39·30	...	39·96	...	39·44	...

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		h m s	s	s	s	s	s	° ′ ″	″	″	″	″	″
239*	2·8	1 48 33·787	33·74	33·71	33·745	33·758	33·786	+ 20 16 12·00	12·10	12·80	11·89	12·35	12·54
240	6·1	48 49·431	49·58	...	...	49·36	...	— 80 43 11·79	11·93	...	...	11·54	...
241*	4·1	49 14·198	13·98	14·01	...	13·864	...	— 46 50 29·82	30·96	29·19	...	29·66	...
242	5·0	49 48·158	48·23	...	...	...	...	— 43 2 13·11	12·35	...	...	...	...
243	6·9	49 58·780	58·78	...	...	...	...	— 25 25 49·29	50·82	...	...	...	...
245*	3·6	51 40·510	40·41	...	...	40·542	...	— 52 9 23·60	24·25	...	...	24·50	...
246*	4·7	52 8·774	8·87	...	...	...	...	— 68 11 18·60	19·98	...	...	...	...
247	7·2	53 15·221	15·43	...	...	...	...	— 68 55 46·07	46·20	...	...	...	...
248*	3·8	54 49·339	49·28	49·17	49·282	49·294	49·194	— 21 36 40·08	39·66	38·40	40·62	39·64	39·49
249	5·4	55 6·761	7·00	...	...	...	...	— 42 33 42·30	40·39	...	...	...	...
250*	3·0	55 18·085	18·15	18·23	...	17·941	...	— 62 6 19·08	19·42	17·68	...	17·47	...
251	7·0	55 37·484	37·39	...	...	...	...	— 24 57 6·85	6·45	...	...	...	...
252	7·5	55 54·415	54·24	...	...	...	...	— 75 54 7 13	7·74	...	...	...	...
253	6·3	56 2·671	1·96	2·20	...	2·438	...	— 78 53 10·12	11·84	10·11	...	10·20	...
254*	4·4	56 21·351	21·25	...	...	21·224	...	+ 2 13 55·85	56·33	...	...	55·86	...
255	6·9	56 22·666	22·60	...	...	...	...	— 55 32 44·83	45·45	...	...	...	...
256*	2·3	57 8·833	...	8·82	8·796	...	...	+ 41 48 5·35	...	5·70	5·84	...	...
257	6·7	58 49·958	...	...	...	...	49·878	— 12 23 17·18	...	...	...	...	17·12
258*	4·6	1 59 33·610	33·43	...	33·596	...	...	— 29 49 29·66	30·17	...	29·36	...	...
259*	7·7	2 0 10·532	...	...	...	...	10·587	+ 20 4 0·45	...	...	...	...	0·99
260	6·7	0 43·518	43·33	...	...	...	...	— 55 24 28·96	28·94	...	...	...	...
261*	2·0	0 58·275	58·25	58·25	58·302	58·290	58·363	+ 22 56 31·47	31·72	31·29	30·70	31·69	31·72
262	7·3	1 34·432	34·36	...	...	...	...	— 52 31 3·78	4·57	...	...	...	...
263	7·3	1 39·809	39·50	...	...	...	...	— 65 39 56·47	58·92	...	...	...	...
264*	7·3	1 43·567	...	...	...	...	43·572	+ 17 30 18·35	...	...	...	...	19·11
266	8·1	1 55·742	55·75	...	...	...	...	— 85 34 9·69	9·96	...	...	...	...
269*	3·1	2 59·842	...	...	59·965	59·868	...	+ 34 27 60·10	...	...	59·91	59·87	...
270*	6·8	3 20·488	...	...	...	...	20·547	+ 16 42 28·36	...	...	...	...	30·66
271*	7·5	3 36·570	...	...	...	...	36·491	+ 19 49 36·12	...	...	...	...	37·09
272	7·2	4 4·614	5·11	...	...	...	...	— 85 16 55·50	56·27	...	...	...	...
273	7·5	4 6·780	6·75	...	...	...	...	— 36 20 44·38	45·05	...	...	...	...
275*	6·0	4 31·745	...	...	(31·967)	...	31·766	+ 18 58 52·64	...	...	51·69	...	51·74
276	7·9	4 50·679	50·05	...	..	...	...	— 83 2 6·96	7·81	...	...	...	...
277*	7·5	5 12·701	...	...	...	...	12·766	+ 20 51 31·92	...	...	...	...	30·96
278*	5·7	5 32·642	...	...	32·594	...	...	+ 8 3 15·92	...	...	15·52	...	...
279*	5·5	5 59·343	...	...	59·304	...	...	+ 29 47 13·94	...	...	13·76	...	...
280*	6·1	6 0·688	0·74	...	...	...	0·603	— 2 20 34·26	34·23	...	...	...	34·07
281*	8·5	6 9·537	...	...	...	...	9·667	+ 21 28 0·33	...	...	...	...	0·34
283*	5·5	6 38·531	...	...	38·508	...	38·590	+ 20 41 37·09	...	...	36·97	...	39·13
284*	4·5	7 10·167	10·09	...	10·127	10·151	10·152	+ 8 19 49·64	49·65	...	49·35	49·86	50·02
285*	7·2	7 45·519	...	...	...	...	45·555	+ 19 5 56·21	...	...	...	...	56·00
286*	5·2	8 3·845	3·75	3·73	3·874	3·706	...	— 31 14 24·43	24·99	23·62	23·66	24·47	...
287*	7·8	8 46·358	...	...	...	...	46·362	+ 22 6 59·04	...	...	...	...	59·41
289*	5·9	10 4·853	4·71	4·67	...	...	...	— 41 40 45·62	45·77	44·17	...	...	...
290	6·7	10 22·235	21·57	...	...	21·961	...	— 77 8 24·40	25·45	...	...	24·38	...
291*	4·2	10 46·485	...	...	...	...	46·536	+ 33 20 16·53	...	...	...	...	17·63
292*	5·5	11 29·822	29·70	29·72	29·753	29·765	29·749	— 6 55 45·66	45·83	44·77	46·04	45·63	45·55
293*	8·3	11 32·852	...	...	...	...	32·906	+ 22 9 7·19	...	...	...	...	7·55
294*	6·0	12 0·409	...	...	0·391	0·359	...	+ 19 23 31·01	...	...	30·99	31·14	...
296*	8·0	12 23·558	...	...	...	...	23·562	+ 21 23 22·85	...	...	...	...	23·11

No.	Mag.	Mean R.A. 1890·0.						Mean Dec. 1890·0.					
		Cape. 1890.	Cape. 1880.	Melbourne. 1880.	Greenwich. 1880.	Cape. 1885.	Radcliffe. 1890.	Cape. 1890.	Cape. 1880.	Melbourne. 1880.	Greenwich. 1880.	Cape. 1885.	Radcliffe. 1890.
		h m s	s	s	s	s	s	° ′ ″	″	″	″	″	″
297*	3·7	2 12 34·715	34·70	...	...	34·685	...	− 52 1 17·71	17·40	...	...	17·88	...
298	6·7	12 40·105	39·90	...	...	...	...	− 36 29 38·24	38·47	...	...	...	...
299*	6·0	12 45·315	...	...	45·196	...	45·313	+ 22 39 36·26	...	...	35·79	...	36·40
300*	Var.	13 47·346	47·26	47·25	...	47·361	47·334	− 3 28 38·83	38·41	37·45	...	38·58	37·39
302*	6·8	14 9·178	9·00	...	...	...	9·064	− 4 51 7·69	8·00	...	...	...	7·73
303	6·6	14 22·104	21·37	...	...	...	...	− 76 52 6·43	7·93	...	...	...	...
304*	8·5	14 24·597	...	...	...	...	24·599	+ 19 37 8·35	...	...	...	...	8·96
305*	7·8	15 0·678	...	...	...	...	0·715	+ 22 55 21·15	...	...	...	...	22·30
306	5·4	16 20·230	20·37	20·22	...	...	...	− 56 26 60·48	60·93	59·78	...	...	...
307*	5·4	17 30·496	30·46	30·34	30·484	30·500	30·458	− 24 18 58·68	59·12	57·86	60·38	59·09	58·77
308*	8·5	17 36·750	...	...	...	...	36·744	+ 20 54 49·01	...	...	...	...	51·20
309	8·0	17 45·996	45·69	...	...	...	...	− 63 2 58·93	60·08	...	...	...	...
311*	4·2	19 47·500	47·55	...	...	47·477	...	− 69 9 36·45	36·31	...	...	36·59	...
312	6·9	19 56·910	56·90	...	...	...	...	− 57 18 49·31	49·86	...	...	...	...
313*	7·8	20 44·672	...	...	...	...	44·726	+ 22 22 60·13	...	...	...	...	59·95
315*	5·4	21 49·329	49·32	...	...	...	...	− 60 48 16·36	16·08	...	...	...	...
316*	8·6	22 0·148	...	...	...	...	0·235	+ 24 8 17·23	...	...	...	...	18·04
317*	6·0	22 13·029	12·62	...	...	...	...	− 74 8 38·57	39·40	...	...	...	...
318*	4·4	22 18·610	18·58	18·57	18·573	18·594	18·619	+ 7 57 59·95	59·98	60·31	59·83	60·17	60·44
319*	4·3	22 57·157	57·04	...	...	57·059	...	− 48 11 52·18	51·74	...	...	51·65	...
320*	6·0	22 57·403	...	...	57·369	...	57·414	+ 22 58 38·28	...	...	39·46	...	40·43
321*	7·5	23 4·450	...	...	...	...	4·436	+ 21 6 10·29	...	...	...	...	11·05
324*	6·2	24 12·725	...	...	12·703	...	12·687	+ 24 44 49·84	...	...	49·92	...	50·19
325	6·9	24 13·703	...	...	...	...	13·572	− 21 31 41·32	...	...	...	...	40·03
326*	5·3	25 23·321	...	...	23·361	...	...	+ 35 39 31·93	...	...	31·88	...	...
327*	4·7	26 52·428	52·27	52·30	...	52·383	52·286	− 15 43 39·99	39·65	38·81	...	39·64	39·62
329	7·3	28 10·500	10·51	...	...	...	...	− 46 21 22·22	22·14	...	...	...	...
330*	8·2	28 18·637	...	...	...	...	18·727	+ 24 24 35·97	...	...	...	...	37·34
331*	8·1	28 23·453	...	...	...	...	23·459	+ 22 29 6·28	...	...	...	...	8·57
332*	5·7	28 31·758	31·70	31·64	...	...	...	− 35 8 2·78	2·22	0·87	...	...	...
333*	7·0	29 49·001	49·02	...	...	...	49·074	− 4 1 44·13	44·94	...	...	...	44·80
334*	5·9	30 2·950	...	...	2·955	...	...	+ 6 21 41·15	...	...	40·67	...	...
335*	4·9	30 6·120	5·96	...	6·030	6·082	6·060	+ 5 6 45·80	46·72	...	45·92	46·55	46·85
336*	7·6	30 25·480	...	...	...	...	25·574	+ 22 34 21·03	...	...	...	...	21·17
337*	7·0	30 39·919	...	...	39·874	...	39·970	+ 24 10 4·48	...	...	4·31	...	5·79
339*	8·3	31 32·060	...	...	...	...	32·221	+ 22 39 5·28	...	...	...	...	6·14
340*	5·4	32 34·217	...	...	34·159	34·112	...	+ 21 29 6·62	...	...	6·94	6·46	...
341	7·0	32 53·535	52·80	...	...	...	...	− 72 49 45·53	45·60	...	...	...	...
343*	5·1	33 46·636	46·52	46·41	...	...	...	− 53 1 10·02	10·68	9·68	...	...	...
344*	4·1	33 50·633	50·60	50·56	50·608	50·636	50·638	− 0 8 46·83	46·82	46·26	47·32	46·82	46·98
345	6·4	33 58·645	58·60	58·47	...	...	...	− 38 27 51·90	51·43	49·93	...	...	...
346*	5·3	34 0·950	0·69	0·94	...	...	...	− 79 35 21·06	21·13	20·77	...	...	...
347*	5·0	34 14·585	14·57	...	14·554	14·462	14·563	− 12 20 21·95	22·36	...	22·65	22·14	21·75
350	7·1	36 5·586	5·40	...	...	...	...	− 67 46 29·99	30·37	...	...	...	...
351*	5·8	36 9·819	...	...	9·758	...	...	+ 19 32 32·63	...	...	32·11	...	...
352*	3·9	36 19·570	19·44	...	...	19·524	...	− 40 19 35·09	34·80	...	...	35·75	...
353*	4·2	36 41·045	...	...	41·175	...	41·219	+ 48 45 46·02	...	...	45·58	...	46·21
354*	4·7	36 59·802	...	...	59·750	...	...	+ 27 14 18·92	...	...	18·41	...	...
355*	7·5	37 5·681	5·64	5·62	...	5·64	...	− 86 12 17·47	17·41	17·00	...	17·34	...
356*	3·6	37 36·059	36·00	36·00	35·979	36·037	36·004	+ 2 46 18·75	19·44	18·85	18·16	18·58	19·42

No.	Mag.	Mean R.A. 1890·0.						Mean Dec. 1890·0.					
		Cape. 1890.	Cape. 1880.	Melbourne. 1880.	Greenwich. 1880.	Cape. 1885.	Radcliffe. 1890.	Cape. 1890.	Cape. 1880.	Melbourne. 1880.	Greenwich. 1880.	Cape. 1885.	Radcliffe. 1890.
		h m s	s	s	s	s	s	° ′ ″	″	″	″	″	″
357*	4·2	2 37 53·828	53·87	...	...	...	...	− 68 44 18·29	18·44	...	...	...	...
358*	4·3	38 53·233	53·14	53·00	53·203	53·169	53·097	− 14 19 29·50	29·02	28·80	31·17	29·65	29·77
359*	4·4	38 59·716	59·79	...	59·701	59·719	59·647	+ 9 38 57·53	58·03	...	56·50	58·09	58·48
360	7·9	39 42·483	41·64	41·52	...	40·56	...	− 88 52 18·17	18·50	18·72	...	18·45	...
361*	6·2	41 31·341	31·25	...	...	...	...	− 67 10 38·57	37·53	...	...	...	...
362	7·1	42 13·920	13·84	...	...	...	13·690	− 22 56 43·74	44·37	...	...	...	43·25
363*	5·7	43 9·265	9·18	...	9·193	...	...	+ 17 0 22·40	22·96	...	22·39	...	...
364*	3·8	43 30·507	...	...	30·508	30·467	30·516	+ 26 48 24·00	...	...	23·76	...	25·29
366*	4·2	44 29·133	29·16	29·15	29·162	...	...	− 32 52 6·01	5·53	4·69	8·67	...	...
367*	5·5	45 25·107	25·11	25·08	25·104	25·136	25·165	+ 14 37 42·46	43·40	42·72	41·92	41·05	42·39
368*	4·8	46 2·967	2·96	2·79	2·887	2·873	2·773	− 21 27 27·71	27·25	27·42	28·71	27·61	27·43
369	7·1	46 54·677	54·64	...	...	...	...	− 41 24 60·85	59·99	...	...	...	...
370	7·5	48 4·472	4·26	...	...	...	...	− 57 38 42·13	41·43	...	...	...	...
371	6·7	49 9·557	...	...	...	...	9·474	− 0 29 50·03	...	...	...	...	50·39
372	7·3	49 16·508	17·45	...	...	...	...	− 85 28 55·55	55·09	...	...	...	...
374	7·5	50 35·818	35·71	...	...	...	...	− 26 22 49·96	50·53	...	...	...	...
375	6·9	50 39·300	39·20	...	...	...	39·127	− 25 44 55·76	54·64	...	...	...	54·87
376*	4·0	51 3·192	3·21	3·04	3·142	3·197	3·185	− 9 20 10·65	10·46	9·78	10·82	10·58	9·84
377	4·7	51 11·257	11·35	...	...	11·200	...	− 75 30 58·42	59·89	...	...	58·36	...
378	7·5	52 21·830	21·79	...	...	...	...	− 37 8 35·13	35·27	...	...	...	...
380*	4·6	52 55·298	...	55·27	55·269	55·239	55·305	+ 20 53 59·76	...	59·68	59·40	60·40	60·15
381	6·2	53 27·297	...	...	...	...	27·209	− 10 12 59·47	...	...	...	...	58·30
382*	3·0	54 5·462	5·33	...	...	...	...	− 40 44 44·70	44·36	...	...	...	...
383	6·4	55 6·157	6·15	...	...	...	5·970	− 32 56 44·23	44·97	...	...	...	41·86
384	7·4	56 2·725	2·75	...	...	...	...	− 42 18 38·98	38·06	...	...	...	...
385*	2·7	56 31·706	31·68	31·70	31·699	31·738	31·718	+ 3 39 28·13	28·07	28·17	27·85	28·20	28·06
386*	5·0	56 43·090	43·02	...	...	...	...	− 64 30 32·03	33·24	...	...	...	...
387	6·0	56 52·990	52·79	...	52·906	...	...	− 28 30 45·61	41·82	...	45·50	...	...
389*	4·1	57 32·528	32·47	32·36	32·448	32·484	32·417	− 24 3 21·42	21·73	20·78	22·51	21·71	21·44
390*	Var.	58 7·618	...	...	7·661	7·704	...	+ 38 24 48·89	...	...	49·11	49·11	...
391*	5·7	2 59 10·225	10·24	10·13	...	...	...	− 47 24 23·29	23·65	22·47	...	...	...
392	8·1	3 0 49·107	49·19	...	...	...	...	− 86 18 28·66	28·44	...	...	...	...
393*	Var.	1 0·667	...	...	0·655	0·686	...	+ 40 31 52·83	...	...	53·30	53·20	...
394*	5·1	1 1·220	1·15	...	...	...	...	− 60 9 52·41	52·92	...	...	...	...
395*	4·1	.....	...	...	...	...	...	+ 49 11 31·96	...	...	33·07	...	...
396*	5·4	2 1·871	1·71	1·88	...	1·811	...	− 72 19 55·07	56·11	55·50	...	54·87	...
397	7·8	2 42·542	42·49	...	...	...	...	− 32 46 29·81	29·68	...	...	...	...
398	7·0	3 21·460	21·35	...	...	...	...	− 30 44 8·89	8·83	...	...	...	...
399*	4·5	5 20·328	20·33	20·28	20·288	20·351	20·340	+ 19 18 36·67	37·15	37·17	36·81	36·64	36·96
400*	*	7 23·899	23·76	23·85	23·918	23·857	...	− 29 25 15·68	16·04	15·29	16·82	15·66	...
401*	4·9	8 34·681	...	...	34·733	34·659	34·757	+ 20 38 10·80	...	...	10·60	10·65	11·41
403*	5·7	9 45·912	45·68	...	...	...	...	− 57 44 0·96	1·67	...	...	...	...
404*	8·4	9 58·786	57·64	59·56	...	60·16	...	− 88 36 38·07	37·92	37·99	...	38·08	...
405*	6·8	10 20·568	20·58	...	...	...	...	− 35 58 1·57	1·34	...	...	...	...
406	7·4	10 34·892	34·90	...	...	...	...	− 28 45 11·69	11·11	...	...	...	...
407	5·7	11 18·040	17·47	...	...	17·631	...	− 79 24 24·31	25·36	...	...	23·92	...
408	7·5	12 24·620	24·69	...	...	...	...	− 31 45 21·46	21·31	...	...	...	...
410*	3·8	14 37·432	37·30	37·26	37·442	37·351	37·361	− 22 9 30·73	31·36	30·20	32·01	30·72	30·54
411*	5·2	14 52·591	52·48	...	52·536	...	52·565	+ 20 44 60·23	60·31	...	59·59	...	60·85
412	6·9	14 58·257	58·25	...	...	...	...	− 35 24 11·29	10·05	...	...	...	...

No.	Mag.	Mean R.A. 1890·0.						Mean Dec. 1890·0.					
		Cape. 1890	Cape. 1880.	Melbourne. 1880.	Greenwich. 1880.	Cape. 1885.	Radcliffe. 1890.	Cape. 1890.	Cape. 1880.	Melbourne. 1880.	Greenwich. 1880.	Cape. 1885.	Radcliffe. 1890.
		h m s	s	s	s	s	s	° ′ ″	″	″	″	″	″
413*	4·3	3 15 32·123	32·11	...	...	32·033	...	— 43 29 27·76	27·21	...	...	27·27	...
414*	1·9	.....	...	...	...	...	...	+ 49 28 11·65	9·60	6·55	8·08	11·22	8·44
415	6·6	16 45·578	...	...	...	...	45·497	— 20 43 10·80	...	...	...	...	10·04
416	6·3	17 32·530	32·47	...	...	...	...	— 25 58 54·18	54·60	...	...	...	...
417	7·3	17 34·856	34·84	...	...	...	...	— 66 16 59·57	59·70	...	...	...	...
418	7·1	18 32·213	32·17	...	...	...	...	— 47 9 15·11	14·03	...	...	...	...
419*	5·5	18 42·553	42·71	...	...	42·560	...	— 77 47 23·01	22·53	...	...	22·74	...
420*	3·8	18 53·585	53·58	53·59	53·566	53·607	53·637	+ 8 38 28·62	28·39	29·13	28·23	29·08	28·98
421	8·0	20 57·090	57·01	...	...	...	...	— 27 39 34·73	35·00	...	...	...	...
422	7·6	21 4·590	4·30	5·09	...	...	...	— 83 56 7·74	8·27	7·92	...	...	...
423*	3·8	21 12·392	12·38	...	12·419	12·418	...	+ 9 20 55·38	55·53	...	54·37	55·25	...
425	6·2	21 40·880	40·77	...	...	...	...	— 36 18 23·80	23·95	...	...	...	...
426	7·0	21 44·025	43·92	...	...	...	...	— 36 20 38·35	37·09	...	...	...	...
427	5·4	23 17·690	17·61	...	...	17·628	...	— 36 3 50·61	50·21	...	...	...	...
428	7·2	23 33·280	33·30	...	...	...	...	— 40 15 46·43	45·35	...	...	...	...
429	7·6	23 38·380	38·23	...	...	...	...	— 40 12 54·03	53·92	...	...	...	...
430*	4·3	24 47·959	47·98	...	47·929	48·004	47·979	+ 12 33 33·07	32·66	...	32·84	33·38	33·86
431	5·9	25 5·660	5·85	...	...	...	...	— 69 43 16·20	17·64	...	...	...	...
432*	4·8	25 9·552	9·57	9·47	9·517	9·529	9·497	— 5 27 9·65	10·67	9·70	10·31	9·69	10·40
435	6·3	27 11·410	11·44	...	...	...	...	— 25 59 15·93	15·86	...	...	...	...
436*	4·8	27 27·369	27·29	...	...	...	...	— 63 19 31·06	32·04	...	...	...	...
437	7·4	27 42·153	42·12	...	...	...	...	— 24 59 22·49	22·97	...	...	...	...
438*	3·7	27 44·868	44·85	44·81	44·827	44·856	44·819	— 9 49 51·70	51·40	51·02	52·33	51·58	50·80
440*	4·2	28 55·732	55·70	...	55·702	55·678	55·619	— 22 0 7·86	7·57	...	7·63	8·09	6·41
441*	5·6	29 17·902	17·88	...	...	...	...	— 50 45 7·62	8·67	...	...	...	...
442	6·4	29 30·140	30·14	...	...	...	...	— 31 27 5·52	6·98	...	...	...	...
444	7·5	31 17·889	17·95	...	...	...	...	— 54 52 44·98	44·60	...	...	...	...
445	7·5	31 18·220	17·82	...	...	18·161	...	— 77 59 15·27	16·78	...	...	15·20	...
446	7·5	31 43·337	43·31	...	...	...	...	— 67 5 52·58	53·39	...	...	...	...
447*	4·5	33 8·820	8·78	...	...	...	...	— 40 38 9·14	8·35	...	...	...	...
448	7·5	33 27·900	27·85	...	...	...	...	— 53 8 26·68	27·00	...	...	...	...
449*	6·4	33 35·293	35·20	...	...	...	35·207	— 5 58 45·21	45·37	...	...	...	44·94
450	7·5	33 44·670	44·68	...	...	...	...	— 31 39 37·69	38·09	...	...	...	...
452	5·6	33 60·182	59·97	60·31	...	...	...	— 78 43 11·39	10·79	10·82	...	...	...
453	5·8	34 13·096	13·01	...	...	...	...	— 28 18 10·78	10·13	...	...	...	...
455*	3·2	.....	...	...	...	...	...	+ 47 26 6·83	...	3·90	6·12	...	6·87
458	6·8	36 47·497	...	...	...	...	47·422	— 14 42 56·66	...	...	...	...	56·97
459*	4·0	37 25·194	...	...	25·218	25·127	...	+ 31 56 20·48	...	...	20·65	19·75	...
460*	4·0	.....	...	...	...	...	...	+ 42 13 49·72	...	...	49·66	...	...
461*	4·9	37 52·375	52·26	...	...	...	...	— 32 17 24·50	24·95	...	...	...	...
462*	3·7	37 58·736	58·64	58·61	58·692	58·705	58·654	— 10 8 10·09	9·76	9·43	10·97	9·72	10·00
463*	3·8	38 20·572	20·45	20·58	20·533	20·590	...	+ 23 46 0·98	1·13	1·18	0·35	0·70	...
464	7·0	38 44·887	44·94	...	...	...	...	— 31 22 6·79	7·39	...	...	...	...
465*	4·4	38 45·438	45·40	...	...	45·271	...	— 37 39 39·71	40·19	...	...	39·52	...
466*	5·7	39 19·031	19·26	...	18·946	...	18·997	— 0 38 36·24	36·27	...	36·05	...	34·97
468*	3·0	40 56·714	56·69	56·67	56·696	56·740	56·747	+ 23 45 51·54	53·73	52·22	51·54	51·84	52·72
469	7·8	41 16·102	16·11	...	...	...	...	— 61 51 20·83	20·72	...	...	...	...
470	6·2	41 45·739	45·58	...	...	...	...	— 54 37 13·24	14·79	...	...	...	...
471	7·3	42 1·860	1·66	...	...	1·811	...	— 25 41 59·34	60·14	...	...	59·40	...
472	7·7	42 3·730	3·73	...	...	3·830	...	— 25 11 50·15	50·00	...	...	50·60	...

No.	Mag.	Mean R.A. 1890·0.						Mean Dec. 1890·0.					
		Cape. 1890	Cape. 1880.	Melbourne. 1880.	Greenwich. 1880.	Cape. 1885.	Radcliffe. 1890.	Cape. 1890.	Cape. 1880.	Melbourne. 1880.	Greenwich. 1880.	Cape. 1885.	Radcliffe. 1890.
		h m s	s	s	s	s	s	° ′ ″	″	″	″	″	″
473*	4·3	3 42 6·891	6·86	6·76	6·878	6·875	6·852	− 23 34 30·14	30·33	29·47	29·83	29·71	30·55
474*	5·1	42 14·348	...	...	14·199	...	...	+ 10 48 15·46	...	...	14·38	...	...
475*	3·8	42 37·247	...	37·24	37·236	...	...	+ 23 42 59·24	...	59·81	58·49	...	...
476*	3·8	42 49·237	49·37	...	...	...	...	− 65 9 11·04	11·58	...	...	...	...
477	6·6	42 51·360	51·01	...	...	...	...	− 30 14 24·26	23·95	...	...	...	...
478	6·8	42 53·560	53·50	...	...	...	...	− 29 48 26·09	26·02	...	...	...	...
479*	4·8	42 55·761	55·74	...	55·742	55·855	55·632	− 24 12 56·89	57·52	...	57·63	56·72	57·14
480	6·8	43 22·270	22·12	...	...	22·214	...	− 26 40 3·18	3·71	...	...	3·54	...
481	6·7	43 41·300	41·18	...	...	...	...	− 36 26 41·69	41·92	...	...	...	...
482	8·1	44 12·355	11·28	...	...	11·80	...	− 85 4 41·55	43·02	...	...	42·24	...
483	8·5	.....	...	...	...	...	...	− 81 12 13·31	12·95	...	...	...	...
484	5·5	44 32·098	31·85	...	...	...	...	− 37 57 31·07	32·02	...	...	...	...
485	4·8	44 32·353	32·13	...	...	...	...	− 37 57 24·35	23·22	...	...	...	...
486	7·5	44 57·011	57·10	...	...	...	...	− 74 21 3·98	3·37	...	...	...	...
487	7·0	45 13·499	13·46	...	...	...	...	− 36 25 40·06	40·04	...	...	...	...
488*	4·1	45 20·219	20·24	20·15	...	20·212	...	− 36 32 1·48	1·14	0·88	...	1·07	...
489	7·3	46 9·621	9·47	...	...	...	...	− 55 20 8·93	9·95	...	...	...	...
490*	3·1	47 13·035	...	...	13·005	...	...	+ 31 33 22·20	...	...	23·61	...	...
493*	3·1	48 56·873	56·87	56·93	...	56·936	...	− 74 34 33·84	34·62	33·29	...	32·72	...
494*	4·7	49 1·803	1·81	...	...	1·826	1·709	− 24 56 17·25	18·25	...	...	...	17·72
495	5·1	49 27·457	27·23	27·34	27·420	27·442	...	− 35 3 28·32	27·64	28·53	34·55	28·63	...
496	6·1	50 5·763	...	...	...	5·822	5·702	− 12 25 16·04	...	...	...	15·38	15·05
498*	3·0	50 28·278	...	...	28·239	28·384	28·343	+ 39 41 28·90	...	...	29·03	29·22	29·56
501*	6·3	51 40·642	40·53	40·67	...	...	...	− 53 0 40·58	40·76	39·77	...	...	...
502*	4·1	51 49·642	...	...	49·594	49·653	49·495	+ 35 28 26·62	...	...	26·65	27·41	27·00
503*	3·1	52 53·805	53·75	53·77	53·803	53·823	53·718	− 13 49 18·72	18·88	18·10	19·51	18·69	19·04
504*	Var.	54 35·117	...	...	35·116	35·076	35·178	+ 12 10 44·24	...	...	44·06	44·23	44·82
505*	4·6	55 14·094	14·06	...	14·038	...	14·014	− 24 19 43·04	43·31	...	43·01	...	43·61
506*	6·4	56 21·183	21·05	...	...	...	...	− 57 24 52·92	54·29	...	...	...	...
507*	4·3	57 0·210	0·16	...	...	...	...	− 61 42 39·64	40·50	...	...	...	...
508	7·8	57 12·589	12·48	...	...	...	...	− 54 28 18·64	20·04	...	...	...	...
509*	4·0	57 18·261	18·13	18·29	18·239	18·278	...	+ 5 41 0·96	1·28	1·53	0·56	1·13	...
510*	4·5	58 11·457	11·39	11·45	11·486	...	11·507	+ 21 46 50·95	49·72	49·88	50·77	...	51·21
511	7·0	3 58 20·547	20·46	...	...	...	...	− 62 12 10·41	9·74	...	...	...	...
512	8·0	4 0 29·457	29·36	...	...	...	...	− 30 31 20·77	21·67	...	...	...	...
513*	4·3	0 40·442	...	...	40·527	...	40·675	+ 47 25 5·68	...	...	4·57	...	6·16
514*	5·5	1 5·403	5·39	...	...	...	5·334	− 27 57 12·09	12·01	...	...	...	11·59
515*	5·8	2 45·425	...	...	45·416	...	45·473	+ 19 19 3·82	...	...	3·67	...	4·59
516	6·4	2 54·233	54·35	54·65	...	54·07	...	− 85 35 10·61	10·58	10·55	...	10·27	...
517	6·9	3 37·330	37·43	...	...	...	...	− 37 21 18·50	17·49	...	...	...	...
518	7·5	5 21·470	21·39	...	...	...	21·368	− 25 19 50·64	51·09	...	...	...	51·80
519*	4·1	6 29·733	29·72	29·71	29·684	29·746	29·729	− 7 7 29·69	29·91	28·92	30·48	29·61	29·51
520*	4·2	.....	...	...	...	...	...	+ 48 7 44·61	41·55	...	44·23	...	44·46
522	6·8	7 39·127	39·27	...	...	39·169	...	− 78 55 38·52	39·29	...	...	38·66	...
523	6·9	10 0·849	...	...	...	...	0·805	− 16 27 24·47	...	...	...	...	23·98
524*	4·5	10 12·577	12·54	...	12·543	12·566	12·551	− 7 49 28·43	28·10	...	28·86	28·51	27·63
525*	3·8	10 21·377	21·24	...	...	...	...	− 42 33 57·19	57·65	...	...	...	...
526	6·4	10 31·079	...	...	31·264	...	...	+ 41 52 9·72	...	...	11·11	...	...
528	6·1	11 56·555	...	...	56·493	...	56·512	− 6 44 37·79	...	...	38·71	...	36·96
530*	3·4	13 0·481	0·43	...	...	...	...	− 62 44 57·80	57·65	...	...	...	...

No.	Mag.	Mean R.A. 1890·0.						Mean Dec. 1890·0.					
		Cape. 1890.	Cape. 1880.	Melbourne. 1880.	Greenwich. 1880.	Cape. 1885.	Radcliffe. 1890.	Cape. 1890.	Cape. 1880.	Melbourne. 1880.	Greenwich. 1880.	Cape. 1885.	Radcliffe. 1890.
		h m s	s	s	s	s	s	° ′ ″	″	″	″	″	″
532*	4·3	4 13 8·666	8·52	...	...	...	...	− 51 45 51·36	52·28	...	...	...	...
534*	3·9	13 31·972	31·94	31·97	31·953	32·013	32·012	+ 15 21 40·88	41·03	41·77	40·96	40·55	41·74
535*	3·8	13 43·849	43·84	...	...	43·743	...	− 34 4 2·02	1·30	...	...	1·61	...
536*	4·4	14 35·144	35·03	...	...	...	...	− 59 33 59·70	60·37	...	...	...	...
537	6·4	14 41·311	41·06	...	...	...	...	− 61 13 7·66	8·25	...	...	...	...
538*	5·3	15 51·113	...	50·96	51·087	51·066	50·972	− 20 54 8·88	...	7·66	8·48	8·52	8·35
539	8·3	15 53·249	53·26	...	...	...	...	− 66 10 47·90	46·73	...	...	...	...
540*	4·0	16 35·431	...	...	35·431	35·347	35·485	+ 17 17 2·14	...	...	1·82	...	2·86
541	7·8	18 2·950	2·92	...	...	...	...	− 51 18 17·82	18·30	...	...	...	...
542*	4·6	18 48·805	...	...	48·717	...	...	+ 22 2 29·40	...	...	28·59	...	...
543*	5·5	18 51·747	...	...	51·814	...	...	+ 21 56 52·31	...	...	51·83	...	...
544*	3·9	19 54·298	54·31	...	...	...	...	− 34 16 21·68	21·60	...	...	...	...
545	7·5	20 5·223	...	...	...	...	5·223	− 1 39 44·10	...	...	...	...	44·93
546*	5·2	20 41·983	41·92	...	...	...	...	− 63 38 51·09	51·92	...	...	...	...
547*	3·7	22 11·578	11·54	11·56	11·535	11·593	11·618	+ 18 56 9·09	9·48	9·82	8·24	9·39	9·65
548*	5·6	25 25·793	25·99	26·02	...	25·80	...	− 80 28 14·69	16·01	14·53	...	14·40	...
549*	6·5	25 40·506	...	...	40·502	...	...	+ 42 49 41·76	...	...	41·07	...	...
550*	5·3	27 27·940	27·92	...	...	...	...	− 45 11 24·70	25·07	...	...	...	...
552*	1·0	29 36·473	36·47	36·47	36·474	36·470	36·512	+ 16 17 14·80	15·23	15·93	14·93	15·04	15·79
553*	5·8	30 44·436	44·77	44·52	...	...	...	− 81 49 42·64	44·43	42·88	...	...	...
554*	4·1	30 49·348	49·33	49·27	...	49·328	49·403	− 3 34 40·41	40·92	40·03	...	40·30	40·94
555*	3·8	31 16·432	16·42	...	...	...	...	− 30 47 16·69	15·83	...	...	...	...
556*	3·5	31 37·136	37·07	37·13	...	...	...	− 55 16 21·27	21·29	20·45	...	...	...
557	7·9	31 59·020	58·74	...	...	58·89	...	− 86 30 43·06	43·38	...	...	43·16	...
559	7·1	32 44·788	43·30	...	...	...	...	− 84 25 52·87	54·11	...	...	...	...
561	8·1	33 5·082	4·99	...	...	...	...	− 55 7 0·72	2·17	...	...	...	...
562*	3·9	33 8·573	8·50	8·52	8·470	8·494	8·435	− 14 31 10·13	10·02	9·10	10·83	10·05	10·35
565*	5·8	35 32·305	32·31	...	...	...	32·156	− 24 41 52·51	52·47	...	...	...	52·35
566*	4·4	35 38·543	38·53	38·50	38·531	38·548	38·592	+ 22 44 42·47	42·82	43·65	42·59	...	43·63
567*	6·8	35 41·434	41·59	41·61	...	41·82	...	− 83 8 8·19	8·79	8·13	...	8·04	...
568	6·9	36 14·867	14·80	...	...	...	...	− 73 25 54·87	56·18	...	...	...	...
569	6·7	36 20·739	20·82	...	...	...	...	− 51 53 19·05	19·31	...	...	...	...
570	6·8	36 34·810	...	...	...	...	34·769	− 12 41 16·58	...	...	...	...	16·13
571*	4·6	37 1·070	1·00	...	...	...	...	− 42 4 26·99	26·18	...	...	...	...
572*	6·5	39 51·469	...	...	51·368	...	...	+ 18 32 6·25	...	...	5·88	...	...
573	7·0	.....	...	...	...	...	...	+ 45 17 26·11	...	...	26·06	...	...
574*	4·3	40 0·140	0·08	0·10	0·087	0·111	0·105	− 3 27 24·66	25·65	24·02	25·13	24·27	24·30
576	8·0	41 31·707	31·64	...	...	...	...	− 25 21 37·73	39·09	...	...	...	...
579*	5·4	42 41·556	41·58	...	...	...	...	− 59 56 4·17	4·88	...	...	...	...
580	6·4	43 21·643	22·03	...	...	...	...	− 77 51 47·13	48·21	...	...	...	...
581*	3·3	43 52·114	52·01	...	52·042	52·137	...	+ 6 46 6·99	6·64	...	5·71	7·28	...
582*	5·8	44 9·922	9·90	9·95	...	...	...	− 71 7 57·22	57·42	55·81	...	...	...
583	8·0	44 19·170	19·24	...	...	...	...	− 46 47 32·29	31·76	...	...	...	...
584*	5·1	44 56·337	...	...	56·283	...	...	+ 18 39 6·86	...	...	6·53	...	...
585*	4·0	45 20·886	20·79	20·84	20·770	20·822	...	+ 5 24 58·93	59·74	59·78	59·35	59·28	...
586	7·2	45 40·732	40·57	...	...	...	...	− 42 34 32·68	32·16	...	...	...	...
587	6·9	48 27·739	...	...	...	...	27·550	− 20 57 14·58	...	...	...	...	13·85
588*	3·9	48 31·266	31·17	31·28	31·286	31·287	31·256	+ 2 15 35·44	35·40	36·99	35·86	36·53	35·82
590	5·8	49 11·770	...	...	11·602	...	11·714	+ 0 17 17·74	...	...	17·59	...	18·02
591*	2·7	49 49·771	49·78	49·77	49·753	49·851	49·810	+ 32 59 27·59	28·32	28·33	28·49	28·06	28·33

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		Cape. 1890.	Cape. 1880.	Melbourne. 1880.	Greenwich. 1880.	Cape. 1885.	Radcliffe. 1890.	Cape. 1890.	Cape. 1880.	Melbourne. 1880.	Greenwich. 1880.	Cape. 1885.	Radcliffe. 1890.
		h m s	s	s	s	s	s	° ′ ″	″	″	″	″	″
593*	5·7	4 51 25·441	...	25·47	25·468	...	...	+ 24 52 48·06	...	48·38	47·08	...	...
594	6·9	51 34·480	34·69	34·70	...	...	...	— 68 15 6·89	8·55	8·16	...	...	...
595	7·5	51 49·342	49·86	...	...	...	...	— 83 41 51·69	53·13	...	...	...	...
597*	6·8	52 48·315	...	...	48·296	...	...	+ 39 29 14·80	...	...	14·78	...	...
599*	Var.	54 4·384	...	...	...	4·468	4·502	+ 43 39 35·64	...	...	...	35·77	34·99
600*	4·0	54 47·189	...	...	47·317	47·245	...	+ 40 54 51·79	...	...	52·06	53·52	...
602*	4·7	56 31·239	...	...	...	31·187	...	+ 21 25 55·77	...	...	...	...	...
603	5·1	56 39·237	39·18	...	39·188	39·204	39·144	— 20 12 44·96	44·79	...	45·11	45·40	44·82
604*	4·7	58 16·980	...	...	...	16·878	...	+ 15 15 0·87	...	...	...	0·21	...
605	5·2	58 21·073	20·98	...	...	21·131	...	— 75 6 20·40	22·69	...	...	20·76	...
607*	3·3	4 58 47·952	...	...	48·038	...	47·972	+ 41 5 5·54	...	...	5·66	...	5·57
609*	3·3	5 0 48·243	48·20	48·22	48·242	48·235	48·191	— 22 31 9·15	8·89	8·57	10·29	8·94	8·80
610*	4·9	2 6·978	6·91	...	...	...	...	— 49 43 37·70	38·57	...	...	...	...
611*	2·9	2 26·508	26·47	26·46	26·456	26·511	26·467	— 5 13 45·23	46·04	44·60	45·47	44·89	45·91
613	6·8	2 44·015	...	...	...	...	44·003	— 12 44 5·38	...	...	...	...	3·92
614*	4·7	3 37·447	37·36	37·49	...	...	...	— 57 37 23·16	23·45	22·07	...	...	...
615*	4·4	3 52·955	52·87	52·91	52·898	52·914	52·923	— 8 53 44·38	44·58	43·63	44·81	44·34	44·70
616*	5·3	4 8·337	8·30	...	...	...	...	— 71 27 51·49	52·33	...	...	...	...
617	7·6	5 21·528	21·82	...	...	...	...	— 55 7 57·34	58·64	...	...	...	...
618	7·5	5 24·888	24·74	...	...	...	...	— 68 13 53·49	53·81	...	...	...	...
619*	4·9	5 53·939	...	...	53·997	53·995	...	+ 38 21 11·88	...	...	11·40	13·28	...
620*	3·3	7 59·386	59·37	59·36	59·401	...	59·296	— 16 20 10·33	10·03	10·15	10·65	...	10·32
622	7·5	8 33·106	33·15	...	...	...	...	— 71 24 22·79	22·86	...	...	...	...
623*	0·2	8 33·788	33·78	33·82	33·722	33·831	33·694	+ 45 53 7·15	7·14	5·69	6·70	9·27	7·32
624*	0·3	9 15·060	15·02	15·06	15·055	15·010	15·033	— 8 19 45·38	45·25	44·96	45·69	45·23	44·77
626*	5·9	11 24·686	24·87	24·67	...	24·75	...	— 82 36 57·60	57·95	57·27	...	57·56	...
627*	3·7	12 15·873	15·84	15·93	15·812	15·896	15·911	— 6 57 49·45	49·41	48·45	50·56	49·27	49·44
628*	5·0	13 31·001	30·97	...	...	...	...	— 35 0 11·57	11·91	...	...	...	...
630*	4·8	13 50·453	50·42	...	...	...	...	— 67 18 32·48	33·37	...	...	...	...
631*	6·5	14 4·861	4·89	4·87	4·826	...	...	+ 27 50 41·57	40·99	42·61	41·66	...	...
633*	5·2	14 52·780	52·71	...	...	...	52·705	— 12 25 44·11	43·83	...	...	...	43·77
634*	5·7	15 0·627	0·54	...	...	...	...	— 27 28 56·85	56·63	...	...	...	...
635*	5·6	16 40·243	40·07	...	...	...	...	— 50 43 28·28	28·37	...	...	...	...
636*	5·0	17 3·078	3·07	...	...	...	...	+ 3 26 16·16	16·39	...	...	...	...
638*	3·5	18 56·716	56·75	56·81	56·696	56·784	56·755	— 2 29 55·76	56·04	55·31	55·56	55·64	56·52
639*	1·9	19 13·844	13·85	...	...	13·862	...	+ 6 14 57·72	58·25	...	...	58·40	...
640*	1·9	19 20·249	20·25	20·29	20·266	20·310	20·305	+ 28 30 49·14	50·06	49·19	49·49	50·18	50·34
642	5·7	19 34·641	...	...	34·680	...	34·528	— 17 4 34·41	...	...	35·54	...	33·94
644*	3·0	23 31·875	31·90	31·87	31·907	31·874	31·799	— 20 50 51·15	51·51	49·89	52·81	51·10	51·62
645*	5·9	23 33·519	33·37	33·34	...	...	...	— 41 2 19·99	19·59	18·47	...	...	...
646	6·8	24 6·063	...	...	...	...	6·052	— 7 20 57·74	...	...	...	...	56·37
647*	Var.	24 8·798	8·75	...	...	8·787	8·769	— 1 10 46·52	46·43	...	...	45·50	46·19
648	6·7	24 12·883	12·50	12·69	...	12·89	...	— 83 58 55·34	59·12	56·70	...	56·09	...
649*	5·0	25 34·048	...	...	34·051	...	...	+ 32 6 35·11	...	...	35·45	...	...
650	7·0	26 20·180	20·57	...	...	...	...	— 60 30 3·75	2·76	...	...	...	...
651*	2·4	26 23·164	23·19	23·19	23·141	23·188	23·182	— 0 22 52·54	52·36	52·34	52·40	52·30	51·99
652*	5·6	27 7·964	7·93	...	...	...	...	— 47 9 26·11	26·80	...	...	...	...
653*	3·9	27 18·463	18·40	18·39	...	...	...	— 35 33 5·60	5·46	3·89	...	...	...
654*	2·7	27 52·700	52·66	52·67	52·697	52·673	52·655	— 17 54 5·46	5·55	5·03	6·47	5·29	5·56
655*	4·4	28 46·960	46·84	...	46·821	46·790	...	+ 9 24 51·42	51·82	...	51·16	52·49	...

No.	Mag.	Mean R.A. 1890·0.						Mean Dec. 1890·0.					
		Cape. 1890.	Cape. 1880.	Melbourne. 1880.	Greenwich. 1880.	Cape. 1885.	Radcliffe. 1890.	Cape. 1890.	Cape. 1880.	Melbourne. 1880.	Greenwich. 1880.	Cape. 1885.	Radcliffe. 1890.
		h m s	s	s	s	s	s	° ′ ″	″	″	″	″	″
656*	3·7	5 29 4·751	4·73	...	4·781	4·655	...	+ 9 51 34·83	35·03	...	35·03	36·27	...
657	7·8	29 21·754	21·77	...	...	...	...	— 47 33 15·20	16·10	...	...	...	...
658*	4·4	29 52·287	52·30	...	52·241	...	52·171	— 5 27 46·68	46·54	...	45·88	...	46·08
659*	5·0	29 58·751	58·92	...	58·736	...	58·755	— 5 29 20·46	20·57	...	20·77	...	20·20
660*	7·8	30 2·229	...	...	2·216	...	...	— 5 29 22·72	...	...	23·22	...	...
661*	3·0	30 3·097	3·10	3·14	3·122	3·126	3·009	— 5 58 57·63	57·28	56·20	59·13	57·10	57·54
662*	1·8	30 37·899	37·87	37·87	37·856	37·927	37·879	— 1 16 21·80	22·52	21·88	21·76	21·97	21·66
663*	3·0	31 4·229	...	...	4·190	...	4·255	+ 21 4 28·82	...	...	28·65	...	29·95
665*	3·7	32 40·181	40·26	...	...	40·219	...	— 62 33 42·46	42·34	...	...	41·55	...
666*	3·7	33 13·431	13·46	...	13·360	13·397	13·312	— 2 39 51·05	50·18	...	50·80	50·65	50·01
667*	1·9	35 12·514	12·50	...	12·517	12·460	12·410	— 2 0 4·59	4·78	...	5·06	4·26	3·79
668	5·1	35 15·642	...	...	15·655	...	15·641	— 1 11 14·45	...	...	14·70	...	14·07
669*	2·7	35 39·910	39·88	39·87	39·942	39·946	39·754	— 34 7 59·29	59·12	58·89	60·70	59·07	61·18
670	6·8	35 55·736	...	...	...	...	55·654	— 20 21 23·17	...	...	...	...	23·72
671*	5·0	36 14·471	14·41	...	...	...	...	— 76 25 8·24	8·94	...	...	...	...
672	7·1	36 37·670	...	...	...	...	37·507	— 15 23 34·56	...	...	...	...	34·62
673	6·6	36 54·863	54·91	...	...	...	...	— 66 37 20·20	20·25	...	...	...	...
674	5·5	37 29·184	29·34	...	...	...	...	— 73 48 22·04	23·43	...	...	...	...
675*	3·8	39 52·606	52·61	52·59	...	52·588	52·640	— 22 29 5·35	5·20	3·56	...	4·10	5·04
676*	3·7	41 58·268	58·20	58·21	58·219	58·257	58·245	— 14 51 48·40	48·32	47·65	49·24	48·13	47·59
678*	2·2	42 32·308	32·31	32·35	32·332	32·314	32·294	— 9 42 33·41	32·92	33·08	33·91	33·07	33·22
680*	4·2	43 51·793	...	...	51·921	...	...	+ 39 6 54·72	...	...	54·87	...	...
681*	4·5	44 34·583	34·55	...	...	...	...	— 65 46 36·22	37·17	...	...	...	...
682*	3·9	44 40·700	40·73	...	...	40·835	...	— 51 6 23·17	23·54	...	...	22·64	...
683	6·8	45 42·937	42·93	...	...	...	...	— 30 39 12·66	12·85	...	...	...	...
684*	5·6	45 56·077	55·52	55·79	...	56·04	...	— 80 33 3·02	6·62	3·79	...	4·23	...
685*	4·0	46 35·361	35·46	35·37	...	35·413	35·306	— 20 53 20·37	20·93	18·52	...	19·39	18·88
686*	3·1	47 4·881	4·85	...	5·034	...	...	— 35 48 36·41	36·46	...	43·18	...	...
687*	4·3	47 49·724	49·68	...	...	...	...	— 56 11 39·56	40·14	...	...	...	...
688	7·3	48 25·480	25·42	...	...	...	...	— 41 7 54·50	53·86	...	...	...	...
689*	Var.	49 12·912	12·94	12·99	12·968	12·968	12·965	+ 7 23 8·97	9·77	9·39	8·87	9·47	9·62
690	7·0	50 15·114	15·01	...	...	...	...	— 26 40 54·34	55·19	...	...	...	...
691	5·9	50 29·605	29·52	...		...	...	— 57 10 56·42	35·68	...	...	...	...
692*	3·7	51 23·677	23·71	23·68	23·742	23·656	23·541	— 14 11 17·80	18·16	17·41	18·29	17·46	18·15
693*	2·1	.....	...	...	...	...	...	+ 44 56 6·78	7·84	5·06	7·34	9·43	...
694*	6·3	51 30·767	30·58	30·95	...	31·06	...	— 84 50 15·45	15·80	15·16	...	15·74	...
695	4·9	51 42·764	42·77	...	...	...	...	— 37 8 13·69	13·24	...	...	...	...
696*	2·7	52 13·145	...	...	13·194	...	...	+ 37 12 14·33	...	...	14·61	...	...
697	7·5	52 30·877	30·85	...	...	...	...	— 33 26 58·73	58·81	...	...	...	...
698*	4·5	53 38·216	38·14	...	...	...	...	— 35 17 43·58	42·87	...	...	...	...
699*	4·0	55 46·735	46·76	...	...	46·849	...	— 42 49 18·10	17·89	...	...	17·10	...
702	7·0	57 29·430	29·42	...	...	...	...	— 42 52 22·67	21·24	...	...	...	...
703*	5·5	57 42·216	42·00	...	...	42·428	...	— 79 22 46·15	46·24	...	...	46·29	...
705*	5·7	5 59 9·692	...	9·62	9·546	9·615	...	+ 4 9 51·04	...	51·55	51·15	51·30	...
707*	4·4	6 1 17·452	17·48	17·48	17·434	17·545	17·502	+ 14 46 51·11	51·30	52·20	51·33	51·20	52·16
708*	6·4	1 18·461	18·36	...	...	...	...	— 45 2 11·22	12·03	...	...	...	...
709*	6·5	1 30·280	30·30	...	...	...	...	— 45 4 42·90	42·17	...	...	...	...
710	7·0	1 36·690	...	...	...	...	36·508	— 6 11 25·74	...	...	...	...	24·91
711*	5·6	1 51·391	51·39	...	...	...	...	— 29 44 48·63	48·76	...	...	...	...
712*	5·5	2 54·578	54·34	...	...	54·610	54·497	— 19 9 12·52	13·49	...	...	11·77	12·25

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		Cape. 1890.	Cape. 1880.	Melbourne. 1880.	Greenwich. 1880.	Cape. 1885.	Radcliffe. 1890.	Cape. 1890.	Cape. 1880.	Melbourne. 1880.	Greenwich. 1880.	Cape. 1885.	Radcliffe. 1890.
		h m s	s	s	s	s	s	° ′ ″	″	″	″	″	″
713	8·0	6 4 38·200	38·48	...	...	...	...	— 61 44 6·24	6·75	...	...	...	...
715	5·8	6 1·612	1·67	...	...	...	...	— 66 1 26·90	27·88	...	...	...	...
716*	5·0	6 3·037	3·11	...	...	...	...	— 62 8 5·40	5·57	...	...	...	...
717	7·3	6 18·540	19·58	...	...	19·24	...	— 88 21 32·57	32·76	...	...	32·66	...
718	7·3	6 53·764	53·74	...	...	...	...	— 51 22 7·59	9·02	...	...	...	...
719*	4·8	8 9·277	9·31	...	...	...	...	— 54 56 39·36	40·38	...	...	...	...
720*	Var.	8 14·262	14·35	14·25	14·238	14·303	14·264	+ 22 32 17·19	16·17	16·91	16·14	17·35	17·90
721*	6·8	8 46·748	47·22	46·95	...	47·63	...	— 85 55 46·47	47·22	46·54	...	46·24	...
722	5·2	9 26·640	26·86	...	...	...	...	— 68 49 10·81	12·07	...	...	...	...
723*	4·0	9 29·426	29·39	29·43	...	29·437	29·449	— 6 14 29·83	30·49	29·76	...	29·66	30·17
725	5·9	11 13·456	...	...	...	...	13·319	— 16 34 53·51	...	...	...	...	54·01
726*	4·5	12 38·290	38·24	38·31	...	...	...	— 35 6 15·29	14·78	14·35	...	..	...
728*	5·2	13 30·815	30·71	...	...	...	...	— 74 42 53·47	53·93	...	...	...	...
730*	3·3	16 5·409	5·36	...	5·423	5·382	...	— 30 0 53·97	54·07	...	54·22	53·47	...
731*	3·2	16 18·315	18·31	18·36	18·301	18·357	18·374	+ 22 34 9·61	9·22	9·75	9·39	10·56	10·51
732*	5·1	.....	...	...	...	...	...	+ 49 20 36·29	...	...	35·10	...	...
734*	2·0	17 51·298	51·22	51·25	51·288	51·287	51·246	— 17 54 6·63	7·54	5·94	7·02	6·47	6·43
735*	4·4	17 56·366	...	...	...	56·356	...	+ 4 38 53·29	...	...	...	53·50	...
736*	3·8	18 5·543	5·48	5·53	5·691	...	...	— 33 22 52·32	52·35	51·15	55·07	...	...
737	5·5	19 2·488	...	...	2·329	...	2·488	— 11 28 17·01	...	...	16·78	...	16·76
738	7·4	19 51·370	51·84	...	...	51·76	...	— 82 0 26·25	27·20	...	...	26·64	...
739	7·8	20 9·925	9·73	...	...	...	...	— 72 4 54·37	54·76	...	...	...	...
740	5·8	20 58·050	58·30	...	...	...	...	— 56 18 39·30	38·65	...	...	...	...
743*	—1·0	21 30·510	30·55	30·56	...	30·567	...	— 52 38 8·78	8·63	8·02	...	8·75	...
744*	4·0	22 25·924	25·87	...	25·860	...	25·930	+ 20 16 51·48	51·91	...	51·71	...	52·10
745*	5·0	22 31·669	31·69	31·65	31·646	31·665	31·668	— 4 41 41·30	41·64	40·12	41·50	40·79	41·25
748*	5·6	23 40·537	40·45	...	...	...	...	— 69 55 24·07	26·70	...	...	...	...
749*	4·6	24 5·453	5·38	...	5·469	...	5·185	— 32 30 40·59	40·65	...	39·80	...	42·79
750*	5·4	26 24·944	25·07	...	...	...	...	— 69 37 37·79	38·43	...	...	...	...
751	5·3	27 34·013	34·13	...	...	...	...	— 56 46 39·77	40·06	...	...	...	...
752*	4·9	28 16·366	16·52	16·35	16·395	...	...	+ 28 6 26·31	27·05	25·38	26·51	...	...
753	5·9	28 31·934	31·86	...	...	...	...	— 31 56 56·74	56·49	...	...	...	...
754	5·3	29 58·060	58·14	...	...	...	...	— 36 8 59·69	61·52	...	...	...	...
755*	4·4	30 26·794	26·55	26·71	26·770	26·707	26·706	— 22 52 41·22	40·78	40·79	40·94	40·65	41·84
756*	5·7	31 2·103	...	...	2·201	...	...	+ 39 29 13·40	...	...	12·75	...	...
757*	2·0	31 21·426	21·41	21·44	21·404	21·415	21·465	+ 16 29 32·86	32·97	34·06	32·63	32·81	33·84
760*	4·3	31 53·163	53·18	...	53·155	53·118	53·069	— 19 9 44·82	45·46	...	45·14	44·09	44·75
761	6·9	32 2·236	2·36	...	...	...	...	— 35 59 43·53	42·42	...	...	...	...
762*	4·5	32 33·041	32·96	...	...	...	...	— 52 53 9·71	10·32	...	...	...	...
763*	3·2	34 23·719	23·80	...	...	23·743	...	— 43 5 59·40	58·58	...	...	59·12	...
764*	Var.	34 55·185	...	...	55·178	55·210	55·236	+ 9 59 48·80	...	..	48·36	48·67	49·13
766	7·5	35 19·614	20·55	...	...	...	...	— 78 49 17·89	19·04	...	...	...	...
767*	3·2	37 9·853	...	...	9·811	9·862	...	+ 25 14 21·62	...	...	21·20	22·12	...
770*	3·4	39 6·930	6·94	6·93	6·907	6·954	6·949	+ 13 0 48·65	49·14	48·95	48·26	49·52	49·97
771*	—1·4	α Canis Majoris	...	...	...	...	...	.....	...	...	...	...	...
772*	6·5	41 15·905	16·10	...	...	...	...	— 31 40 7·83	7·46	...	...	...	...
773*	4·8	42 7·531	7·49	7·51	7·514	7·495	...	+ 2 31 54·91	54·79	55·05	54·79	55·32	...
774	7·4	43 45·236	45·25	45·20	...	...	...	— 47 41 5·39	5·22	3·75	...	...	...
775	7·0	45 25·410	25·33	...	...	...	...	— 32 24 58·08	57·97	...	...	...	...
776*	3·7	45 32·263	...	...	...	32·316	32·298	+ 34 5 34·47	...	...	...	35·73	35·02

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		Cape. 1890.	Cape. 1880.	Melbourne. 1880.	Greenwich. 1880.	Cape. 1885.	Radcliffe. 1890.	Cape. 1890.	Cape. 1880.	Melbourne. 1880.	Greenwich. 1880.	Cape. 1885.	Radcliffe. 1890.
		h m s	s	s	s	s	s	° ′ ″	″	″	″	″	″
777*	3·9	6 45 43·884	43·83	...	...	43·928	...	− 32 22 54·66	53·61	...	...	54·15	...
778*	3·3	47 3·673	3·72	...	...	3·512	...	− 61 49 23·53	23·31	...	...	23·45	...
779*	2·8	47 12·349	12·26	...	...	12·460	...	− 50 29 1·70	2·54	...	...	1·44	...
780	6·1	47 49·756	49·74	49·65	...	...	...	− 36 5 47·05	45·36	45·57	...	...	...
782*	4·4	48 47·555	47·55	...	...	...	47·477	− 20 5 19·50	20·22	...	...	...	19·40
783*	4·2	49 4·757	4·75	4·76	4·691	4·776	4·711	− 11 54 4·62	4·70	4·71	4·93	4·40	4·50
784*	5·6	49 11·479	11·46	11·51	...	11·47	...	− 80 41 47·59	48·58	47·52	...	47·76	...
785	8·0	49 14·317	14·32	...	...	...	...	− 40 33 28·91	28·34	...	...	...	...
786	7·0	49 22·640	22·69	...	...	...	22·557	− 24 24 6·87	7·25	...	...	...	6·85
789*	5·5	52 42·371	42·50	...	...	...	...	− 70 49 34·31	34·66	...	...	...	...
790	6·6	53 18·839	18·84	...	...	...	...	− 27 23 27·16	25·85	...	...	...	...
791*	5·4	54 5·382	5·37	5·40	5·499	5·449	...	− 25 15 54·73	55·05	54·34	55·75	54·27	...
792*	1·5	54 18·133	18·06	18·12	18·127	18·127	18·080	− 28 49 22·07	21·82	21·16	22·68	21·79	21·11
793	8·5	55 3·757	3·87	...	...	...	...	− 55 45 59·64	61·02	...	...	...	...
796*	3·5	57 20·203	20·13	...	20·163	20·172	20·035	− 27 46 40·23	38·88	...	39·78	39·09	39·63
797*	Var.	57 35·078	...	...	35·042	35·198	35·100	+ 20 43 51·37	...	...	51·38	51·77	52·21
798	8·0	58 9·902	10·09	...	...	...	...	− 56 45 3·20	3·57	...	...	...	...
799*	3·1	58 25·821	25·82	...	25·869	25·880	25·755	− 23 40 22·87	23·41	...	23·61	22·24	23·14
800*	5·9	58 41·024	...	...	41·039	...	...	+ 22 48 5·48	...	...	5·45	...	...
801*	4·1	6 58 46·898	46·86	46·89	46·866	46·902	46·852	− 15 28 16·57	16·67	15·78	16·76	16·23	16·74
802	6·1	7 0 8·890	...	...	8·904	...	...	+ 34 10 41·44	...	...	42·91	...	...
803*	5·5	0 34·870	34·94	34·86	...	...	...	− 43 27 20·11	20·57	18·82	...	...	...
806	5·2	1 2·009	2·03	...	...	...	...	− 49 25 23·97	26·72	...	...	...	...
807	7·0	1 28·762	...	...	...	...	28·886	− 12 13 29·97	...	...	...	...	30·52
809*	5·3	2 15·197	15·22	...	...	...	...	− 56 34 58·25	59·48	...	...	...	...
810	6·5	2 15·700	15·66	...	...	15·643	...	− 38 12 50·26	50·61	...	...	...	...
811*	5·5	3 31·005	31·19	...	...	...	...	− 79 15 41·11	41·74	...	...	...	...
813*	1·9	3 55·095	55·09	55·11	55·113	55·084	54·970	− 26 13 8·46	8·35	7·61	8·74	7·67	9·99
814*	5·2	4 5·264	...	5·33	...	5·334	...	+ 39 29 57·00	...	56·32	...	58·30	...
816*	5·5	4 33·679	...	...	33·709	...	...	+ 27 2 12·07	...	...	10·99	...	...
817	6·0	4 35·037	34·99	...	...	...	...	− 51 47 45·25	46·82	...	...	...	...
818	5·9	5 11·020	10·98	...	...	...	11·003	− 25 3 12·17	12·78	...	...	...	12·01
819*	4·0	6 14·860	14·81	...	14·751	...	14·819	− 0 18 39·97	39·09	...	40·54	...	39·77
821	6·3	8 31·340	31·37	...	...	...	...	− 36 21 33·21	32·71	...	...	...	...
822*	4·5	9 25·384	25·34	...	...	...	...	− 46 34 33·26	33·87	...	...	...	...
823	4·5	9 40·609	40·59	...	...	40·730	...	− 70 19 12·57	13·87	...	...	11·82	...
825	5·1	9 55·840	55·96	...	...	...	...	− 44 59 31·14	28·23	...	...	...	...
826*	6·5	10 24·431	24·46	...	24·509	...	...	− 26 50 45·95	47·96	...	48·31	...	...
827	6·3	10 30·858	30·84	...	...	...	30·777	− 10 23 28·95	28·88	...	...	...	29·17
829*	3·6	11 46·259	...	...	46·257	46·281	46·299	+ 16 44 17·20	...	...	17·06	17·95	17·63
830	4·9	12 10·360	10·48	...	10·413	10·360	...	− 27 41 13·65	14·05	...	13·51	13·70	...
831	7·5	12 16·152	15·68	...	...	...	...	− 67 35 11·81	8·06	...	...	...	...
832*	2·5	13 15·390	15·54	...	...	15·458	...	− 36 54 0·90	0·87	...	...	0·80	...
833	5·6	13 19·545	...	...	19·678	...	...	+ 45 25 50·65	...	...	50·45	...	...
834*	3·7	13 33·201	33·22	33·20	33·180	33·275	33·209	+ 22 11 2·96	2·79	3·36	2·99	4·00	3·85
835*	4·8	14 5·517	5·58	5·52	5·500	5·605	5·456	− 24 21 30·42	31·03	29·61	(33·17)	29·97	29·84
836	4·8	14 23·720	23·69	...	...	...	...	− 36 32 1·84	1·65	...	...	...	...
837	Var.	14 29·480	...	...	...	...	29·268	− 16 11 21·51	...	...	...	...	20·36
839	6·9	16 10·700	...	...	...	...	10·626	− 5 41 24·93	...	...	...	...	26·30
840	6·7	16 27·000	26·89	...	...	...	...	− 26 45 28·36	28·72	...	...	...	...

No.	Mag.	Mean R.A. 1890·0.						Mean Dec. 1890·0.					
		Cape. 1890.	Cape. 1880.	Melbourne. 1880.	Greenwich. 1880.	Cape. 1885.	Radcliffe. 1890.	Cape. 1890.	Cape. 1880.	Melbourne. 1880.	Greenwich. 1880.	Cape. 1885.	Radcliffe. 1890.
		h m s	s	s	s	s	s	° ′ ″	″	″	″	″	″
841*	3·9	7 16 52·957	52·97	...	...	...	...	− 67 45 20·86	21·15	...	...	...	...
842	5·8	17 1·707	1·61	...	1·683	...	1·709	− 5 46 25·72	26·41	...	26·37	...	25·28
843	5·6	18 48·320	48·25	...	48·377	...	...	− 31 42 43·93	43·50	...	43·15	...	...
844*	4·0	18 53·661	...	53·67	53·672	53·652	...	+ 28 0 57·86	...	58·14	57·39	58·14	...
846*	2·4	19 44·642	44·46	44·58	44·666	44·712	...	− 29 5 20·50	19·96	17·91	20·68	19·85	...
847	8·2	20 13·360	13·53	...	...	...	...	− 69 59 52·85	53·09	...	...	...	...
848	5·3	20 30·860	30·92	...	...	...	...	− 31 35 35·25	35·50	...	...	...	...
850*	3·1	21 11·089	11·12	11·14	11·095	11·114	11·146	+ 8 30 37·30	38·04	37·78	37·10	37·81	38·42
851	7·0	21 29·600	29·58	...	...	29·609	...	− 31 31 12·89	13·90	...	...	...	...
852	7·0	21 48·928	49·13	...	...	...	...	− 62 3 25·60	26·02	...	...	...	...
854*	4·2	22 2·144	...	...	2·126	2·082	2·144	+ 32 0 8·28	...	...	9·17	9·73	9·42
855	5·6	22 13·845	...	...	13·868	...	13·785	− 17 38 37·23	...	...	38·76	...	36·96
856	5·4	22 19·600	...	...	...	...	19·533	− 22 51 53·86	...	...	...	...	53·88
858*	6·3	25 18·175	18·04	18·53	...	18·38	...	− 86 50 59·87	60·27	60·06	...	59·73	...
859*	3·0	25 44·427	44·28	...	...	44·439	...	− 43 4 44·60	44·15	...	...	44·12	...
861*	5·1	26 23·163	...	...	...	23·096	...	+ 2 8 49·23	...	...	...	49·70	...
863*	2·2	27 34·859	34·90	34·91	34·869	34·829	34·881	+ 32 7 44·08	45·57	44·74	44·67	45·34	45·52
864	6·8	27 35·553	35·49	...	...	...	...	− 50 22 38·91	37·26	...	...	...	...
865	4·5	29 20·593	...	20·63	20·717	20·670	20·617	− 22 3 31·80	...	32·44	34·15	31·89	32·29
866	7·6	29 20·723	20·82	...	...	...	...	− 84 15 31·46	32·48	...	...	...	...
867	6·4	29 28·670	28·72	...	...	...	...	− 39 49 15·47	14·83	...	...	...	...
868	7·0	29 40·416	40·39	...	40·322	...	40·260	− 23 14 6·41	6·84	...	7·09	...	7·75
870	5·4	31 40·378	40·57	...	...	...	...	− 78 51 47·33	48·76	...	...	...	...
871*	5·1	31 48·531	48·54	48·56	...	48·538	48·522	− 3 51 57·56	57·30	57·03	...	56·93	56·75
872	8·0	32 37·434	37·50	...	...	...	...	− 41 50 13·48	13·41	...	...	...	...
873	6·9	32 37·830	37·77	...	...	...	37·750	− 23 31 44·17	44·52	...	...	...	44·98
874*	4·9	32 56·385	56·41	...	...	...	...	− 52 17 18·65	18·97	...	...	...	...
875*	4·7	33 17·842	17·85	...	...	...	...	− 34 43 17·61	16·87	...	...	...	...
876*	0·5	α Canis Minoris	...	...	...	...	...	...	...	...	...	...	...
877	7·5	33 53·560	53·53	...	...	...	...	− 53 56 23·73	23·27	...	...	...	...
878	5·1	35 34·753	34·85	...	...	...	...	− 38 3 20·33	19·51	...	...	...	...
879	6·0	35 54·957	55·01	...	...	...	...	− 38 0 25·96	26·05	...	...	...	...
880*	4·2	35 59·431	59·38	59·51	59·409	59·462	59·417	− 9 17 42·03	41·86	42·80	42·60	41·67	41·63
881	6·7	36 2·447	2·34	...	...	...	...	− 37 19 30·50	31·17	...	...	...	...
882	6·8	37 36·525	36·48	...	...	...	...	− 74 1 31·23	31·70	...	...	...	...
884*	3·6	37 48·361	...	...	48·363	48·408	...	+ 24 39 39·76	...	...	39·87	40·53	...
885*	5·8	38 15·667	15·67	...	...	...	...	− 26 5 25·17	25·00	...	...	...	...
886*	1·1	38 35·051	35·04	35·07	35·057	35·104	35·112	+ 28 17 27·84	29·38	28·47	28·44	29·14	29·24
888*	4·2	39 23·498	23·44	...	...	23·472	23·392	− 28 41 32·27	31·85	...	...	31·76	31·06
889	5·1	39 45·347	...	...	45·354	...	...	+ 18 46 39·82	...	...	39·56	...	...
891*	5·4	40 24·817	...	...	24·858	24·833	...	+ 33 41 5·80	...	...	5·23	6·23	...
893	6·8	40 39·136	39·13	...	...	...	...	− 37 40 41·42	40·90	...	...	...	...
894*	3·4	41 20·066	20·06	...	...	...	...	− 37 42 6·83	5·80	...	...	...	...
895	6·5	42 28·930	28·82	...	...	...	28·851	− 22 14 57·21	58·14	...	...	...	56·80
896*	4·3	43 10·121	10·10	10·00	...	...	...	− 72 20 29·89	30·16	29·36	...	...	...
897	4·7	43 30·760	30·77	...	30·844	30·818	...	− 25 39 52·48	52·88	...	53·01	52·01	...
898*	3·4	44 40·037	40·02	40·02	40·082	40·054	39·957	− 24 35 2·56	2·93	1·90	3·46	1·84	1·76
900*	4·1	45 53·165	53·13	...	...	...	...	− 46 5 47·44	47·19	...	...	...	...
901*	5·5	46 40·725	40·61	40·62	40·603	40·672	40·588	− 13 36 23·97	24·59	23·01	24·50	23·90	23·59
903*	4·9	46 45·918	...	...	45·855	45·910	...	+ 27 2 59·67	...	...	59·14	60·29	...

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		Cape. 1890.	Cape. 1880.	Melbourne. 1880.	Greenwich. 1880.	Cape. 1885.	Radcliffe. 1890.	Cape. 1890.	Cape. 1880.	Melbourne. 1880.	Greenwich. 1880.	Cape. 1885.	Radcliffe. 1890.
		h m s	s	s	s	s	s	° ′ ″	″	″	″	″	″
904	6·2	7 46 55·628	...	...	...	...	55·462	— 20 53 36·67	...	...	...	...	36·29
905	5·9	47 23·741	23·95	...	...	...	...	— 60 0 33·13	36·60	...	...	...	...
906*	3·7	48 26·094	26·11	...	...	26·106	...	— 40 17 33·00	31·71	...	...	31·98	...
907*	6·0	48 57·024	57·12	...	...	...	...	— 65 54 53·02	53·43	...	...	...	...
908*	4·3	50 4·171	4·11	...	...	4·215	...	— 47 48 58·84	58·87	...	...	58·35	...
910	7·6	51 0·138	0·73	...	...	...	...	— 82 18 36·19	38·65	...	...	...	...
911	8·5	51 4·130	4·21	...	...	...	...	— 47 1 4·02	3·82	...	...	...	...
912	7·8	52 5·364	5·43	...	...	...	...	— 47 1 17·34	17·28	...	...	...	...
913	5·5	52 36·430	36·76	...	...	...	...	— 57 0 43·36	44·15	...	...	...	...
914*	3·6	53 58·872	58·74	...	...	58·918	...	— 52 41 14·87	15·79	...	...	14·61	...
915*	5·9	54 16·476	...	...	16·501	16·532	...	+ 25 41 36·21	...	...	35·02	36·53	...
916*	6·0	54 29·129	...	...	29·046	...	...	+ 17 36 33·92	...	...	34·01	...	...
918*	5·7	55 44·928	45·06	...	...	...	...	— 60 0 28·92	28·97	...	...	...	...
919*	7·0	56 18·226	18·64	...	...	18·35	...	— 81 18 36·88	39·07	...	...	37·13	...
920*	4·6	56 32·520	32·71	...	32·485	32·603	...	— 2 38 10·18	9·74	...	10·21	10·19	...
921*	5·0	56 45·697	45·71	45·72	45·680	45·765	45·740	+ 28 6 7·60	7·87	7·54	7·61	7·20	8·10
923*	2·3	59 43·051	43·12	...	...	43·086	...	— 39 41 37·14	36·50	...	...	36·53	...
924*	6·7	7 59 48·479	48·37	...	...	...	48·311	— 19 25 0·28	0·34	...	...	...	0·01
925*	7·8	8 0 15·514	15·50	16·27	...	15·84	...	— 88 32 47·18	47·47	47·07	...	47·20	...
926	5·1	2 26·860	26·93	...	26·752	...	26·667	— 20 14 13·03	13·13	...	13·16	...	12·58
927*	2·9	2 51·523	51·50	51·53	51·523	51·517	51·476	— 23 59 15·37	14·77	14·59	15·78	14·72	14·49
928	4·8	3 8·520	8·59	...	...	...	...	— 44 56 55·73	54·93	...	...	...	...
931	6·7	4 35·733	35·85	...	...	...	...	— 37 21 36·18	36·30	...	...	...	...
933	8·5	5 2·375	3·22	...	...	...	...	— 85 37 34·27	34·24	...	...	...	...
935*	5·0	5 54·225	...	...	54·121	54·224	...	+ 17 58 43·47	...	...	43·82	44·65	...
936	4·9	6 5·970	5·93	...	...	...	...	— 47 1 17·24	17·78	...	...	...	...
937*	1·9	6 8·509	8·56	...	...	8·538	...	— 47 0 45·75	45·42	...	...	45·42	...
939*	5·1	8 16·619	16·60	16·51	16·571	16·612	16·556	— 15 27 26·03	26·71	25·36	26·75	25·82	25·87
940	6·8	8 49·280	49·51	...	...	...	...	— 37 35 36·70	35·84	...	...	...	...
941	7·5	10 17·170	17·13	...	...	...	...	— 46 14 42·62	42·76	...	...	...	...
942*	3·8	10 32·958	32·99	32·99	32·941	32·989	32·995	+ 9 31 26·48	26·75	26·97	26·16	26·90	27·10
943	6·9	11 27·929	27·93	...	...	...	...	— 30 35 17·63	16·63	...	...	...	...
944*	6·8	12 20·451	20·49	...	...	...	20·513	— 15 56 42·10	42·46	...	...	...	42·41
947*	4·5	14 26·230	26·18	...	...	...	...	— 36 19 7·37	7·13	...	...	...	...
948	8·0	15 54·360	...	...	...	...	54·286	— 7 42 34·80	...	...	...	...	34·27
949	6·9	16 53·788	53·82	...	...	...	...	— 51 35 43·64	44·45	...	...	...	...
950	7·8	17 34·990	34·97	...	...	...	...	— 59 45 17·35	16·60	...	...	...	...
952*	6·7	17 36·672	36·62	...	...	36·593	36·591	— 12 42 5·50	4·71	...	...	5·04	5·86
953	7·4	19 51·822	51·74	...	...	...	...	— 45 15 27·74	28·53	...	...	...	...
954*	6·6	20 7·937	...	...	7·900	...	...	+ 27 17 34·69	...	...	35·72	...	...
955*	3·9	20 9·847	9·85	9·82	9·785	9·847	9·780	— 3 32 52·92	52·99	52·03	52·52	52·71	52·00
956*	1·7	20 15·266	15·47	15·32	...	15·429	...	— 59 9 20·46	20·51	19·82	...	20·34	...
957	5·5	20 18·760	18·69	...	...	...	18·606	— 23 41 23·31	24·05	...	...	...	24·11
958	6·9	20 46·050	...	...	...	...	46·044	— 8 9 21·86	...	...	...	...	20·46
960*	4·1	21 21·362	21·27	21·41	...	...	...	— 76 34 18·44	18·36	17·87	...	...	...
961	5·4	23 3·495	3·69	...	...	...	...	— 73 2 38·04	38·02	...	...	...	...
962	6·2	23 48·060	...	...	48·089	...	48·022	— 22 42 22·43	...	...	22·58	...	22·28
963*	4·2	23 55·703	55·63	55·77	...	56·072	...	— 77 7 45·51	46·54	45·22	...	45·14	...
964*	3·6	24 32·278	32·26	...	...	32·283	...	— 65 46 11·08	11·62	...	...	10·65	...
965*	6·4	25 23·136	23·12	...	...	...	...	— 43 47 37·08	37·73	...	...	...	...

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		Cape. 1890.	Cape. 1880.	Melbourne. 1880.	Greenwich. 1880.	Cape. 1885.	Radcliffe. 1890.	Cape. 1890.	Cape. 1880.	Melbourne. 1880.	Greenwich. 1880.	Cape. 1885.	Radcliffe. 1890.
		h m s	s	s	s	s	s	° ′ ″	″	″	″	″	″
966	5·6	8 25 36·320	36·32	...	...	...	...	− 47 33 42·43	42·54	...	...	...	...
967*	6·0	25 45·942	...	...	...	45·891	...	+ 38 23 34·73	...	...	...	35·63	...
970*	5·5	26 20·882	20·84	20·83	20·816	20·838	20·867	+ 20 48 51·33	51·35	51·80	51·32	52·52	52·19
971	7·4	26 51·808	51·93	...	...	...	...	− 41 8 42·06	42·50	...	...	...	...
977	7·0	29 50·759	50·80	...	...	...	...	− 26 43 16·43	16·13	...	...	...	...
978	6·9	30 19·852	19·92	...	...	...	...	− 37 14 0·28	0·52	...	...	...	...
979	5·6	30 49·558	50·73	50·04	...	50·01	...	− 80 33 10·99	15·03	13·67	...	11·42	...
980	7·0	31 20·960	...	...	...	...	20·823	− 9 19 58·56	...	...	...	...	58·03
981*	4·1	31 49·954	50·05	...	49·927	49·960	49·990	+ 6 5 12·57	13·20	...	12·60	12·61	13·61
982	4·8	32 43·678	43·69	...	...	...	...	− 57 37 43·24	43·84	...	...	...	...
983*	4·4	33 0·461	0·34	...	0·399	0·451	0·561	+ 3 43 37·67	37·37	...	37·12	38·36	38·13
984	7·5	33 25·817	25·92	...	...	...	...	− 56 19 41·40	40·14	...	...	...	...
985*	4·1	33 46·545	46·65	...	...	...	...	− 42 36 16·58	15·41	...	...	...	...
986*	5·1	34 18·991	...	...	18·976	...	18·860	− 22 17 17·64	...	...	18·49	...	17·70
988*	5·2	34 48·754	48·75	48·78	...	48·750	48·707	− 12 5 12·85	13·29	12·41	...	12·54	12·60
989	4·9	35 8·555	8·49	...	...	8·568	8·611	− 29 10 11·86	10·21	...	...	10·50	10·77
990*	3·9	35 47·725	47·59	...	47·791	...	...	− 34 55 5·91	5·11	...	16·00	...	...
991	6·9	36 4·968	5·07	...	...	...	...	− 70 17 26·88	27·62	...	...	...	...
993	7·5	36 53·130	53·14	...	...	...	...	− 59 55 41·75	41·68	...	...	...	...
994*	4·8	36 55·262	55·17	55·15	55·212	55·220	55·231	+ 21 51 49·32	49·76	49·43	48·71	49·68	49·27
995	6·8	36 55·512	...	...	...	...	55·438	− 11 34 22·45	...	...	...	...	21·46
996	3·7	36 58·539	58·51	...	...	58·629	...	− 46 15 27·67	27·56	...	...	27·09	...
997	3·6	37 8·455	8·52	...	...	8·611	...	− 52 31 53·49	53·79	...	...	53·01	...
998*	4·4	38 11·074	11·14	...	...	...	...	− 59 22 7·18	7·89	...	...	...	...
999*	4·3	38 26·006	...	...	26·012	26·026	...	+ 18 33 29·38	...	...	28·48	30·16	...
1000*	3·7	39 10·279	10·24	...	10·298	...	10·195	− 32 47 24·85	24·46	...	27·97	...	22·75
1002*	4·2	40 2·424	...	...	2·455	2·453	...	+ 29 9 41·86	...	...	42·20	42·26	...
1003*	3·6	40 57·057	56·99	57·07	57·029	57·062	57·045	+ 6 49 18·87	19·57	19·14	18·85	19·48	19·33
1004*	4·4	41 10·741	10·70	...	...	10·702	10·624	− 13 8 45·44	45·33	...	...	45·78	44·91
1006	7·0	41 30·611	32·16	31·48	...	...	...	− 86 11 13·78	15·50	14·54	...	...	...
1007*	2·0	41 39·870	39·82	39·90	...	40·038	...	− 54 18 20·70	21·39	21·01	...	20·25	...
1008*	5·1	41 40·472	40·39	40·40	40·487	40·486	40·399	− 1 29 40·47	40·04	39·31	40·66	40·01	39·45
1009*	4·0	42 17·861	17·77	...	...	...	...	− 45 38 22·45	21·64	...	...	...	...
1012*	5·7	45 2·715	2·94	...	...	...	...	− 78 33 49·61	49·82	...	...	...	...
1013*	4·3	45 51·784	51·79	...	51·772	...	51·732	− 27 18 8·37	8·06	...	8·83	...	8·33
1014*	6·7	46 56·834	56·94	...	...	...	...	− 78 40 0·62	3·59	...	...	...	...
1015*	5·5	47 31·960	...	...	31·874	31·967	...	+ 30 59 43·72	...	...	43·12	44·78	...
1017	5·4	49 5·477	5·50	...	...	...	...	− 66 22 56·93	58·85	...	...	...	...
1018	7·2	49 20·692	20·65	...	...	...	...	− 51 42 48·57	48·79	...	...	...	...
1019*	3·3	49 34·746	34·65	...	34·724	34·749	...	+ 6 21 49·63	50·04	...	49·68	49·85	...
1020	6·4	49 56·562	56·97	...	...	...	...	− 79 5 48·30	51·53	...	...	...	...
1022*	6·5	51 17·738	...	...	17·775	...	...	+ 30 39 20·37	...	...	20·72	...	...
1024	6·6	51 27·743	...	...	...	27·696	27·599	− 16 17 10·67	...	...	...	10·08	10·76
1025*	3·2	.....	...	...	...	...	...	+ 48 28 23·48	...	20·13	22·93	25·06	...
1026*	4·3	52 28·264	28·28	28·24	28·280	28·256	28·281	+ 12 16 59·21	59·55	59·69	58·91	59·33	60·23
1027*	4·0	52 33·128	33·33	...	...	33·285	...	− 60 13 28·39	29·20	...	...	28·19	...
1029	4·2	53 29·853	...	29·95	...	...	...	+ 42 13 4·66	...	2·74	...	...	...
1030	5·1	54 16·775	16·88	...	...	...	...	− 58 48 17·73	17·59	...	...	...	...
1033*	3·7	56 6·720	...	...	6·861	6·801	...	+ 47 35 28·71	...	...	27·79	29·82	...
1034*	5·2	8 56 42·184	42·35	...	...	...	...	− 58 39 46·26	46·93	...	...	...	...

No.	Mag.	Mean R.A. 1890·0.						Mean Dec. 1890·0.					
		Cape. 1890.	Cape. 1880.	Melbourne. 1880.	Greenwich. 1880.	Cape. 1885.	Radcliffe. 1890.	Cape. 1890.	Cape. 1880.	Melbourne. 1880.	Greenwich. 1880.	Cape. 1885.	Radcliffe. 1890.
		h m s	s	s	s	s	s	° ′ ″	″	″	″	″	″
1038*	3·7	9 0 21·552	21·45	...	...	...	...	− 46 39 36·72	36·28	...	...	...	...
1039*	7·1	0 35·278	35·52	...	...	...	...	− 73 57 59·64	60·70	...	...	...	...
1040*	4·1	0 42·427	42·42	42·52	...	...	...	− 65 57 25·31	26·17	25·70	...	...	...
1041	8·2	1 8·292	8·44	...	...	...	...	− 75 17 29·52	30·30	...	...	...	...
1042*	5·0	1 47·370	47·35	47·35	47·318	47·347	47·355	+ 11 6 37·87	38·89	38·36	37·35	38·03	38·75
1043	6·9	1 51·900	51·99	...	...	...	...	− 57 24 49·92	50·70	...	...	...	...
1045	7·0	3 41·900	41·80	...	...	...	...	− 50 46 6·90	7·23	...	...	...	...
1046*	2·1	3 56·939	56·92	...	...	57·023	...	− 42 59 19·63	18·98	...	...	19·18	...
1047*	5·6	4 12·822	12·79	...	...	...	12·742	− 8 20 29·31	30·16	...	...	...	28·86
1049*	4·5	4 51·010	50·77	...	...	...	...	− 72 9 35·78	36·71	...	...	...	...
1050	7·8	7 27·633	27·69	...	...	...	...	− 76 7 16·00	16·77	...	...	...	...
1052	3·5	8 4·213	4·30	...	...	4·243	...	− 58 30 59·64	59·91	...	...	59·15	...
1053*	6·3	8 29·107	...	...	29·039	...	...	+ 35 5 12·61	...	...	12·81	...	...
1054	7·0	8 32·160	32·20	...	...	...	...	− 57 31 0·90	0·89	...	...	...	...
1055*	3·9	8 38·477	38·52	38·47	38·420	38·474	38·529	+ 2 46 40·61	40·86	41·83	40·58	41·51	40·35
1056*	4·2	8 46·660	46·61	...	...	46·712	...	− 61 51 56·81	56·73	...	...	56·27	...
1058*	5·6	9 9·503	...	...	9·438	...	...	+ 15 23 50·14	...	...	50·18	...	...
1059	5·2	11 2·162	2·40	...	...	...	...	− 55 6 50·64	51·87	...	...	...	...
1060	6·5	11 15·500	15·45	...	...	...	...	− 45 5 52·35	52·32	...	...	...	...
1061*	5·5	11 18·032	18·02	...	...	18·016	17·999	− 8 17 9·78	9·92	...	...	9·75	9·38
1062*	1·7	11 59·466	59·24	59·49	...	59·501	...	− 69 15 51·02	51·40	50·19	...	50·23	...
1063*	*	11 59·968	...	...	59·835	59·932	...	+ 37 16 3·16	...	...	3·41	3·70	...
1064*	*	12 31·977	32·28	32·27	...	32·41	...	− 85 13 18·29	18·64	18·22	...	17·76	...
1065*	6·6	12 50·520	50·52	50·50	50·506	50·562	50·533	+ 18 10 16·91	17·14	17·31	16·71	17·16	17·50
1067*	2·2	14 8·661	8·71	8·66	...	8·662	...	− 58 48 50·10	50·01	49·70	...	49·50	...
1068*	3·4	14 21·204	...	...	21·195	21·175	21·153	+ 34 51 26·29	...	...	26·08	27·50	26·79
1069	5·9	14 21·570	21·48	...	...	...	21·502	− 15 22 8·27	9·35	...	...	...	8·08
1071*	4·9	14 28·512	28·43	...	...	...	28·484	− 11 30 39·65	39·72	...	...	...	39·75
1072*	4·9	15 6·782	6·69	...	...	...	6·668	− 9 5 22·56	21·61	...	...	...	21·04
1074	8·0	15 26·797	26·83	...	...	...	...	− 67 12 48·74	49·08	...	...	...	...
1075	6·7	15 43·118	...	...	...	...	43·035	− 15 8 53·93	...	...	...	...	53·20
1077*	4·9	16 37·408	37·35	37·35	37·349	37·273	...	− 25 29 51·03	51·12	50·63	52·33	50·88	...
1079	6·4	17 37·410	37·30	...	...	...	...	− 41 43 28·38	27·24	...	...	...	...
1080	7·7	17 42·685	43·16	...	...	...	...	− 81 18 30·05	30·64	...	...	...	...
1081	4·8	18 18·272	18·26	...	...	...	...	− 61 56 9·76	10·07	...	...	...	...
1082	7·8	18 26·075	26·16	...	...	...	...	− 56 26 6·40	6·70	...	...	...	...
1083	5·7	18 29·060	29·12	...	...	...	...	− 55 2 50·88	51·71	...	...	...	...
1084*	2·6	18 42·406	42·25	...	...	42·426	...	− 54 32 28·29	27·35	...	...	27·45	...
1085	7·8	19 15·131	15·13	...	...	...	...	− 83 16 51·90	53·51	...	...	...	...
1087	7·0	20 27·525	...	...	...	...	27·460	− 0 45 36·13	...	...	...	...	35·16
1089	6·5	20 31·780	31·83	...	...	...	...	− 59 49 47·02	47·72	...	...	...	...
1090	6·4	21 18·342	18·35	...	...	...	...	− 61 10 24·96	23·74	...	...	...	...
1091	7·3	22 1·625	1·61	...	...	...	...	− 52 46 25·57	24·19	...	...	...	...
1092	7·3	22 9·728	9·84	...	...	...	...	− 41 46 28·77	28·27	...	...	...	...
1093*	2·0	22 10·917	10·87	10·91	10·884	10·923	10·867	− 8 10 55·92	55·66	55·20	56·01	55·62	54·87
1094*	5·3	22 19·812	19·76	...	19·815	...	19·801	− 5 35 28·04	27·21	...	27·24	...	26·81
1096	6·6	23 49·900	49·97	...	...	...	49·920	− 1 43 29·76	30·26	...	...	...	28·69
1097	7·6	24 4·610	5·27	...	...	...	...	− 79 55 17·26	20·93	...	...	...	...
1098*	4·4	24 42·298	42·28	42·22	...	...	...	− 35 28 14·05	13·99	13·25	...	...	14·21
1099	7·3	24 48·290	48·25	...	...	...	...	− 26 6 42·03	42·42	...	...	...	...

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		Cape. 1890	Cape. 1880.	Melbourne. 1880.	Greenwich. 1880.	Cape. 1885.	Radcliffe. 1890.	Cape. 1890.	Cape. 1880.	Melbourne. 1880.	Greenwich. 1880.	Cape. 1885.	Radcliffe. 1890.
		h m s	s	s	s	s	s	° ′ ″	″	″	″	″	″
1100	5·7	9 25 1·590	1·70	...	...	...	1·516	− 26 6 28·20	29·07	...	...	...	28·53
1101	8·0	25 49·178	49·39	...	...	...	...	− 75 17 39·72	40·49	...	...	...	...
1102*	3·5	26 22·028	21·99	...	...	21·988	...	− 39 59 7·42	7·07	...	...	7·00	...
1103	7·0	26 44·995	45·57	...	...	...	...	− 71 18 2·87	4·35	...	...	...	...
1105	7·2	27 8·799	9·26	...	...	...	...	− 84 11 16·17	17·42	...	...	...	...
1106*	4·7	27 29·060	...	...	29·032	29·068	...	+ 36 53 7·95	...	...	7·91	8·25	...
1107*	5·3	27 47·512	47·40	...	...	47·61	...	− 80 18 41·50	43·10	...	...	41·44	...
1108*	Var.	27 52·713	52·78	...	...	52·748	...	− 56 32 57·40	57·33	...	...	56·97	...
1109	6·6	27 53·164	...	...	...	...	53·185	− 6 42 9·84	...	...	...	...	8·31
1110	5·4	27 57·319	57·26	57·15	...	...	...	− 40 9 46·84	45·68	46·27	...	...	...
1111*	5·2	28 8·553	...	8·50	8·518	8·568	8·405	− 20 37 45·11	...	44·67	44·73	44·54	44·22
1113	6·7	29 20·221	20·43	...	...	...	...	− 66 13 57·02	57·37	...	...	...	...
1116*	5·5	30 46·703	46·63	...	...	...	...	− 72 35 34·79	35·33	...	...	...	...
1117	8·3	30 48·031	48·35	...	...	...	...	− 73 15 36·43	37·81	...	...	...	...
1119*	4·2	31 15·198	15·16	...	...	...	...	− 58 44 21·89	22·02	...	...	...	...
1121	6·0	32 3·330	3·44	...	3·442	...	3·279	− 24 48 16·44	16·51	...	17·28	...	16·07
1122	6·8	32 25·990	26·02	...	...	...	...	− 48 15 27·54	27·94	...	...	...	...
1123*	6·7	32 27·924	27·89	...	...	...	27·839	− 8 55 49·72	49·39	...	...	...	49·40
1124	6·5	32 44·290	...	44·35	44·312	...	...	+ 20 47 35·72	...	37·42	35·20	...	...
1125*	4·4	32 53·305	53·22	...	...	53·338	...	− 48 51 44·33	44·18	...	...	43·59	...
1126	6·4	32 53·309	53·39	...	...	...	...	− 35 36 6·02	5·79	...	...	...	...
1127	8·0	33 12·758	12·92	...	...	...	...	− 80 44 2·85	3·47	...	...	...	...
1128*	4·2	34 14·316	14·19	...	14·294	14·365	14·284	− 0 38 37·95	37·56	...	37·07	37·03	36·94
1131*	4·9	35 1·956	1·95	1·94	1·977	1·962	1·945	− 13 50 0·99	0·69	0·24	0·94	0·42	0·49
1134*	3·8	35 16·802	16·77	16·77	16·763	16·762	16·798	+ 10 23 32·43	32·59	34·17	32·37	33·34	33·61
1135	8·8	35 37·317	37·64	...	...	...	...	− 81 11 3·29	5·61	...	...	...	...
1136	4·6	36 15·800	...	...	15·882	...	15·716	− 23 5 30·41	...	...	30·51	...	28·72
1137	4·6	36 18·150	18·36	...	...	...	...	− 60 49 48·57	49·32	...	...	...	...
1138	5·2	37 5·930	6·06	6·21	...	6·08	...	− 80 26 48·62	49·01	48·35	...	48·50	...
1139	5·4	37 19·247	19·46	...	...	...	...	− 57 29 0·63	0·30	...	...	...	...
1140	6·6	37 33·610	33·41	...	...	...	...	− 56 45 27·86	26·98	...	...	...	...
1141*	4·9	39 17·859	17·84	...	17·891	17·906	17·904	− 27 15 58·13	57·27	...	59·02	57·96	57·79
1142*	3·1	39 36·458	36·41	36·40	36·428	36·432	36·448	+ 24 16 49·31	49·49	50·01	49·29	49·69	50·05
1145	6·9	42 9·130	9·23	...	...	...	...	− 56 40 42·56	43·11	...	...	...	...
1146*	Var.	42 13·346	13·52	...	...	...	...	− 62 0 2·65	2·76	...	...	...	...
1148	7·0	43 6·510	6·79	...	...	...	...	− 69 15 17·15	17·52	...	...	...	...
1151*	3·0	44 21·052	21·10	21·11	...	21·177	...	− 64 33 42·66	42·29	42·39	...	42·45	...
1153*	5·9	45 41·456	41·56	41·47	...	41·433	41·408	− 3 43 41·36	41·75	41·30	...	41·01	41·60
1154*	4·3	46 11·241	11·17	...	11·166	...	11·110	− 14 19 51·51	51·00	...	51·93	...	50·98
1155	7·5	46 29·412	29·41	...	...	30·15	...	− 85 30 25·26	25·43	...	...	26·16	...
1156*	4·1	46 30·464	30·33	30·39	30·391	30·418	30·501	+ 26 31 28·47	29·95	29·86	28·75	29·74	29·95
1157	7·1	46 42·091	43·31	...	...	43·17	...	− 85 30 25·38	25·89	...	...	25·44	...
1158	7·8	47 23·824	23·68	...	...	...	...	− 45 59 48·33	47·79	...	...	...	...
1159*	4·5	47 25·703	25·58	...	...	...	...	− 46 1 55·31	54·70	...	...	...	...
1160	6·3	49 25·825	...	25·70	...	25·858	25·666	− 21 58 4·75	...	3·26	...	5·12	3·93
1162	5·9	49 57·659	57·78	57·60	...	...	...	− 44 45 50·57	49·95	49·71	...	...	...
1163*	5·2	50 56·765	...	...	56·762	...	...	+ 41 34 44·58	...	...	44·58	...	...
1164*	3·7	53 0·020	0·02	...	...	0·031	...	− 54 2 40·16	39·79	...	...	39·25	...
1165	6·5	53 11·770	11·71	...	...	...	...	− 52 6 54·04	53·84	...	...	...	...
1166	6·3	53 29·440	29·37	...	...	29·513	...	− 47 53 22·81	21·87	...	...	21·95	...

No.	Mag.	Mean R.A. 1890·0.						Mean Dec. 1890·0.					
		Cape. 1890.	Cape. 1880.	Melbourne. 1880.	Greenwich. 1880.	Cape. 1885.	Radcliffe. 1890.	Cape. 1890.	Cape. 1880.	Melbourne. 1880.	Greenwich. 1880.	Cape. 1885.	Radcliffe. 1890.
		h m s	s	s	s	s	s	° ′ ″	″	″	″	″	″
1167*	5·3	9 54 9·090	9·12	9·00	...	...	...	− 35 21 53·05	52·83	52·24	...	...	...
1168*	5·0	54 24·016	24·01	24·02	24·007	24·027	24·030	+ 8 34 18·04	18·09	18·38	17·51	18·40	18·55
1169	7·5	54 53·390	53·35	...	...	...	...	− 62 3 36·85	38·15	...	...	...	...
1172*	6·9	57 12·236	...	...	...	...	12·047	− 0 32 5·05	...	...	...	...	5·91
1174	6·9	58 33·038	33·02	...	...	...	...	− 32 42 23·48	22·91	...	...	...	...
1175*	5·7	59 16·132	16·16	...	...	...	15·997	− 23 45 12·20	12·66	...	...	...	12·08
1176*	4·7	9 59 46·050	46·05	46·06	...	46·072	45·991	− 12 31 53·09	53·88	52·52	...	53·28	52·83
1178*	3·6	10 1 20·132	...	...	20·093	20·156	20·120	+ 17 17 55·42	...	...	55·27	56·20	56·41
1179	6·1	1 52·840	...	...	...	...	52·774	− 16 36 13·30	...	...	13·15	...	12·35
1181*	1·4	2 30·841	30·78	30·81	30·801	30·816	30·827	+ 12 30 16·83	17·20	16·40	15·91	16·60	17·37
1183	5·6	3 38·184	38·36	38·50	...	38·37	...	− 81 40 55·59	57·54	55·84	...	55·92	...
1184	5·3	4 44·130	44·26	...	44·196	...	44·164	− 12 16 21·85	20·00	...	21·40	...	20·13
1185	5·2	4 46·029	46·04	...	...	...	...	− 51 16 18·39	18·85	...	...	...	...
1186	6·5	4 47·462	47·84	...	...	...	...	− 35 19 2·36	2·27	...	...	...	...
1187*	3·9	5 13·531	13·46	13·43	13·420	13·522	13·476	− 11 48 38·15	38·44	37·95	39·28	37·71	37·44
1188	6·6	6 13·005	13·63	...	...	...	...	− 81 1 47·10	48·83	...	...	...	...
1189	6·4	7 1·829	1·85	...	...	...	...	− 28 3 47·94	46·71	...	...	...	...
1190	7·4	7 37·948	38·09	...	...	...	...	− 67 17 57·34	57·90	...	...	...	...
1191*	6·7	8 33·206	33·24	...	...	...	33·133	− 32 29 21·15	21·45	...	...	...	22·25
1192	6·7	9 46·109	46·32	...	...	...	...	− 61 6 49·07	49·47	...	...	...	...
1193	7·3	9 49·145	50·30	50·40	...	...	...	− 86 22 35·22	34·72	35·51	...	...	...
1194*	4·0	10 7·070	7·06	...	...	...	...	− 41 34 37·84	37·50	...	...	...	...
1195*	3·6	10 27·617	...	27·66	27·662	...	27·724	+ 43 27 48·85	...	47·82	48·04	...	48·78
1196*	3·6	10 34·343	...	...	34·275	34·340	...	+ 23 57 55·01	...	...	54·69	55·12	...
1197*	3·6	11 7·388	7·35	...	...	7·286	...	− 69 29 30·22	29·96	...	...	30·02	...
1198	6·5	11 12·049	11·80	...	...	...	...	− 54 25 37·36	37·19	...	...	...	...
1201	3·4	13 24·498	24·66	...	...	24·549	...	− 60 46 58·67	58·57	...	...	57·50	...
1202*	2·4	13 54·536	54·45	54·42	54·446	54·559	54·437	+ 20 23 51·85	52·08	52·07	51·20	51·87	52·38
1203	6·6	13 59·990	60·02	...	...	...	59·949	− 4 33 10·30	8·92	...	...	...	7·97
1205*	3·1	15 46·492	...	46·48	46·469	46·429	46·399	+ 42 3 9·16	...	8·63	8·57	10·11	8·99
1206*	5·6	15 47·593	47·53	...	...	...	...	− 47 8 46·68	46·98	...	...	...	...
1207	6·8	17 58·310	58·39	...	...	...	58·302	− 3 5 13·26	13·19	...	...	...	13·45
1208*	5·5	18 40·300	40·25	40·27	...	...	...	− 37 27 6·61	6·72	6·64	...	...	...
1210	7·0	19 49·329	49·38	...	...	...	...	− 57 23 47·42	47·08	...	...	...	...
1211	7·5	20 3·450	...	...	...	3·371	...	− 12 12 16·01	...	...	...	16·03	...
1212*	6·0	20 14·384	14·30	...	...	...	14·389	− 6 30 19·41	18·67	...	...	...	18·79
1213*	4·1	20 46·223	46·17	46·17	46·185	46·209	46·143	− 16 16 29·85	29·74	29·40	30·29	29·36	29·91
1214*	6·8	20 59·924	60·01	...	...	...	59·970	− 0 25 44·46	44·00	...	...	...	43·71
1215*	6·5	21 13·443	13·44	...	...	...	13·376	− 3 49 43·65	43·68	...	...	...	42·67
1216*	4·4	21 31·314	...	...	31·293	31·319	...	+ 37 16 13·90	...	...	14·57	14·99	...
1217*	4·2	22 7·091	7·07	7·04	7·120	7·099	6·946	− 30 30 28·78	28·36	26·88	30·18	28·25	29·18
1218*	4·0	22 12·620	12·65	...	...	12·590	...	− 73 28 18·74	18·87	...	...	18·59	...
1219	8·0	23 23·337	23·70	...	...	...	...	− 61 27 19·54	17·82	...	...	...	...
1220	7·5	23 28·682	28·83	...	...	...	...	− 88 57 21·64	21·68	...	...	...	...
1222*	4·1	23 50·436	50·58	...	...	...	...	− 58 10 40·46	40·35	...	...	...	...
1223	6·1	23 57·099	57·51	...	...	...	...	− 65 8 37·88	38·55	...	...	...	...
1224	5·9	24 24·030	24·12	...	24·190	...	...	− 29 6 6·03	4·89	...	3·90	...	...
1225	7·3	24 39·609	39·80	...	...	...	...	− 56 40 15·84	15·42	...	...	...	...
1226*	4·0	27 1·133	1·15	1·15	1·111	1·146	1·160	+ 9 52 20·76	21·21	21·17	20·59	21·27	21·85
1227	5·1	27 5·487	5·99	...	...	...	...	− 53 9 24·79	27·01	...	...	...	...

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		Cape. 1890	Cape. 1880.	Melbourne. 1880.	Greenwich. 1880.	Cape. 1885.	Radcliffe. 1890.	Cape. 1890.	Cape. 1880.	Melbourne. 1880.	Greenwich. 1880.	Cape. 1885.	Radcliffe. 1890.
		h m s	s	s	s	s	s	° ′ ″	″	″	″	″	″
1228	8·0	10 27 45·690	45·93	...	...	45·771	...	— 67 8 13·60	13·96	...	...	13·04	...
1229	6·4	27 50·510	50·56	...	...	...	...	— 44 3 6·33	5·46	...	...	...	...
1230*	3·6	28 6·763	6·82	6·75	...	...	...	— 61 7 10·52	10·66	10·94	...	...	...
1231*	5·4	28 46·995	46·78	46·92	46·982	46·984	46·779	— 23 10 42·74	43·03	41·34	43·46	42·18	42·09
1232*	6·0	29 43·603	43·51	...	...	...	43·491	— 22 36 33·11	33·43	...	...	...	32·04
1233	7·8	29 50·480	51·91	...	...	...	...	— 85 59 47·50	48·87	...	...	...	...
1234*	6·2	31 3·776	...	...	...	3·775	(3·687)	— 11 38 23·72	...	...	...	24·14	(21·89)
1236	4·6	31 21·662	21·89	...	...	21·802	...	— 56 59 17·36	17·82	...	...	17·31	...
1237	Var.	32 7·380	7·30	...	7·288	...	7·278	— 12 48 45·00	45·69	...	45·97	...	45·06
1238	7·0	32 28·043	28·90	...	...	...	...	— 81 21 11·35	11·85	...	...	...	...
1239*	4·0	32 40·689	40·69	...	...	...	...	— 47 39 16·06	15·97	...	...	...	...
1241	6·8	33 22·762	22·76	...	...	...	...	— 75 44 19·89	20·52	...	...	...	...
1243*	4·1	34 9·917	9·73	...	...	...	...	— 78 2 14·62	14·70	...	...	...	...
1244*	4·4	34 55·680	55·73	...	...	...	...	— 55 1 50·24	49·12	...	...	...	...
1245*	6·2	35 48·450	48·40	48·39	...	48·414	48·353	— 1 9 49·12	48·25	48·29	...	48·23	48·16
1246	7·6	36 35·668	35·59	...	...	...	...	— 57 21 40·16	40·94	...	...	...	...
1247*	6·9	37 25·125	25·23	25·14	...	25·11	...	— 85 31 13·40	14·06	13·88	...	13·22	...
1248*	5·1	37 26·112	...	...	26·095	26·102	...	+ 23 45 50·10	...	...	50·10	51·37	...
1249	7·5	38 19·766	20·02	...	...	...	...	— 56 18 5·63	5·42	...	...	...	...
1250*	3·0	39 2·024	1·82	...	...	1·971	...	— 63 49 5·39	6·63	...	...	5·44	...
1251	4·4	39 20·949	21·14	...	...	...	...	— 59 59 23·23	23·69	...	...	...	...
1252*	5·4	39 44·916	...	...	44·888	44·877	...	+ 31 15 40·92	...	...	41·44	40·47	...
1253	6·9	40 5·311	5·37	...	...	5·556	...	— 74 53 12·58	13·22	...	...	13·57	...
1254*	6·2	40 22·076	...	...	22·011	...	...	+ 6 57 9·47	...	...	9·65	...	...
1255*	Var.	40 47·611	47·66	47·62	...	47·586	...	— 59 6 22·61	22·43	22·25	...	22·52	...
1256	7·3	40 55·184	55·07	...	...	...	...	— 46 52 52·83	53·33	...	...	...	...
1257*	2·8	42 2·290	2·22	...	...	2·298	...	— 48 50 20·81	20·80	...	...	20·46	...
1258*	5·3	43 28·539	28·50	28·50	28·484	28·534	28·548	+ 11 7 37·42	39·14	37·83	37·42	37·29	38·64
1259	7·8	43 50·465	50·64	...	...	...	...	— 47 46 14·00	14·35	...	...	...	...
1260*	3·3	44 11·765	11·79	11·72	...	11·789	11·672	— 15 37 5·56	5·24	4·50	...	4·87	5·51
1262*	4·6	44 44·710	44·56	44·61	...	44·640	...	— 79 57 36·00	37·02	36·32	...	35·88	...
1263*	5·8	44 46·989	47·01	46·88	...	46·957	46·865	— 8 18 54·86	54·15	53·94	...	54·41	53·63
1264*	6·8	45 43·027	...	...	...	...	42·883	— 17 44 58·32	...	...	...	...	58·06
1265	7·6	46 30·674	31·66	...	...	31·25	...	— 86 19 12·42	13·12	...	...	12·25	...
1266*	3·9	47 9·560	...	...	9·564	9·519	9·628	+ 34 48 27·66	...	...	27·94	29·32	28·76
1267	6·9	48 54·516	54·75	...	...	...	...	— 58 18 30·54	31·14	...	...	...	...
1268*	3·9	49 1·503	1·42	...	...	...	...	— 58 16 8·70	8·24	...	...	...	...
1269	6·9	49 49·487	...	...	...	...	49·372	— 20 4 44·41	...	...	...	...	43·47
1271	6·4	50 1·701	1·75	...	...	...	...	— 41 39 53·43	53·31	...	...	...	...
1272*	4·6	51 35·437	35·47	35·46	...	...	...	— 36 32 47·77	47·54	47·53	...	...	...
1273	6·2	52 20·258	20·28	...	...	...	...	— 50 10 38·91	39·39	...	...	...	...
1275	Var.	53 19·210	19·27	...	...	...	...	— 59 8 37·28	38·17	...	...	...	...
1276	7·0	53 27·675	27·90	...	...	...	...	— 68 26 58·77	58·79	...	...	...	...
1277	6·6	54 7·830	8·02	...	...	8·163	...	— 74 30 40·50	40·95	...	...	40·82	...
1278*	4·1	54 24·864	24·90	...	24·841	24·888	24·838	— 17 42 47·37	48·03	...	47·25	46·91	46·55
1279*	5·0	54 52·775	52·74	52·79	52·745	52·770	52·775	+ 4 12 28·48	28·67	28·77	28·43	28·62	29·17
1280*	4·6	55 6·437	6·55	6·37	...	...	...	— 41 38 9·87	9·94	9·31	...	...	...
1281*	4·5	56 27·446	...	...	27·380	...	...	+ 20 46 11·04	...	...	11·12	...	...
1282*	6·0	57 4·889	4·88	...	...	...	...	— 26 14 10·45	9·78	...	...	...	...
1283*	6·2	57 58·796	...	...	58·737	...	58·806	+ 0 35 28·16	...	...	29·12	...	29·26

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		Cape. 1890	Cape. 1880.	Melbourne. 1880.	Greenwich. 1880.	Cape. 1885.	Radcliffe. 1890.	Cape. 1890.	Cape. 1880.	Melbourne. 1880.	Greenwich. 1880.	Cape. 1885.	Radcliffe. 1890.
		h m s	s	s	s	s	s	° ′ ″	″	″	″	″	″
1284	8·5	10 59 6·164	6·34	...	...	...	...	− 36 7 44·82	44·69	...	...	...	...
1285*	4·7	59 20·570	20·53	20·54	20·571	20·551	20·572	+ 7 55 49·72	51·43	50·39	49·68	50·89	50·56
1286*	5·2	11 0 1·945	1·92	...	1·919	...	1·692	− 26 41 59·84	59·29	...	59·65	...	59·23
1287*	6·2	0 3·843	4·34	3·83	...	3·84	...	− 84 0 7·60	7·80	7·67	...	7·43	...
1288	6·5	0 54·190	...	...	54·151	...	...	+ 18 19 56·25	...	...	56·57	...	...
1289*	5·7	1 17·537	...	...	17·533	...	...	+ 2 33 8·42	...	...	8·37	...	...
1291	5·4	2 11·514	11·52	11·46	...	...	...	− 42 2 42·51	42·70	42·09	...	41·73	...
1292	6·7	2 35·428	35·38	...	...	...	...	− 48 2 44·03	43·42	...	...	...	...
1293*	5·9	2 51·785	51·54	...	...	...	...	− 70 16 58·58	59·49	...	...	...	...
1294*	3·1	3 28·715	...	28·68	...	28·684	...	+ 45 5 43·43	...	40·47	...	44·08	...
1296*	4·0	3 53·475	53·46	...	...	...	...	− 58 22 45·38	45·10	...	...	...	...
1297*	4·4	6 14·835	14·87	14·80	14·872	14·862	14·809	− 22 13 31·36	31·62	30·30	31·61	31·27	30·05
1298	6·7	6 56·692	56·73	...	...	...	...	− 31 50 11·33	10·85	...	...	...	...
1299	6·7	7 9·227	...	...	...	...	9·058	− 21 9 6·28	...	...	...	...	4·41
1300	7·2	7 40·777	41·51	...	...	...	...	− 85 9 9·96	10·39	...	...	...	...
1301*	5·5	8 12·207	12·15	...	...	...	...	− 63 34 17·66	17·58	...	...	...	...
1302*	2·8	8 15·444	15·46	15·46	15·486	15·491	15·527	+ 21 7 34·27	34·28	35·14	34·56	35·42	35·46
1303*	3·5	8 28·047	...	...	28·051	28·029	...	+ 16 1 50·61	...	...	50·42	50·64	...
1304	6·7	10 36·414	37·22	...	...	...	...	− 85 37 59·09	58·87	...	...	...	...
1305	7·8	10 53·911	53·80	...	...	...	...	− 46 42 17·17	16·25	...	...	...	...
1306*	3·8	12 18·869	...	...	...	...	...	+ 32 8 52·65	...	...	53·02	...	...
1307*	3·8	12 32·187	...	...	32·227	...	...	+ 33 41 39·44	...	...	40·16	...	..
1309*	4·8	13 8·143	...	...	8·146	...	...	+ 38 47 20·44	18·65	...	20·13	...	...
1311*	3·9	13 50·467	50·39	50·41	50·429	50·437	50·404	− 14 10 60·02	59·83	59·27	60·44	59·63	59·88
1312	6·3	15 20·875	20·49	...	...	...	...	− 79 3 57·47	58·24	...	...	...	...
1313*	4·1	15 27·871	27·91	27·83	27·844	27·867	...	+ 6 37 55·20	55·41	55·55	55·52	56·16	...
1314*	6·6	15 38·801	38·87	...	...	38·893	...	− 74 32 24·84	26·67	...	...	25·67	...
1315*	4·4	15 59·466	59·42	...	...	...	...	− 53 53 18·35	18·05	...	...	...	...
1317	6·6	18 8·359	8·63	...	...	...	...	− 56 10 33·55	33·29	...	...	...	...
1318*	*	18 11·413	...	...	11·380	11·366	...	+ 11 8 5·97	...	...	6·30	7·19	...
1319	6·8	19 21·427	...	...	...	...	21·429	− 1 36 25·29	...	...	...	...	24·67
1320*	4·2	19 23·215	23·23	23·10	...	23·153	23·076	− 17 4 48·08	48·75	46·69	...	47·41	46·81
1321*	5·4	20 9·450	9·41	...	...	...	...	− 35 27 32·78	32·90	...	...	...	...
1322*	7·5	21 11·292	...	...	11·190	...	11·230	+ 3 36 44·58	...	...	44·92	...	45·27
1323*	8·0	21 12·343	...	...	12·187	...	...	+ 3 36 18·64	...	...	19·77	...	...
1324*	5·8	21 37·063	37·05	37·02	...	37·035	37·074	− 11 45 8·45	7·92	7·75	...	8·21	8·58
1325*	5·0	22 16·834	16·82	16·80	16·798	16·799	16·824	+ 3 27 42·91	42·52	43·82	42·85	43·08	43·96
1328	7·8	23 45·518	46·36	46·21	...	45·79	...	− 84 20 58·52	59·12	59·13	...	58·61	...
1329	7·6	24 45·191	48·41	48·37	...	...	...	− 88 38 17·98	18·53	18·22	...	...	...
1331*	4·9	26 40·988	40·97	...	...	...	...	− 58 50 6·26	6·61	...	...	...	...
1332*	6·4	27 12·064	12·05	...	...	12·052	12·080	− 7 13 12·94	12·86	...	...	12·62	12·12
1333	6·6	27 26·486	26·53	...	...	26·555	...	− 66 21 16·86	17·12	...	...	17·15	...
1334*	3·8	27 35·471	35·57	35·51	35·543	35·488	35·361	− 31 14 56·55	56·07	55·76	57·16	56·39	56·84
1335	5·8	30 30·630	...	...	30·620	...	...	+ 28 23 20·73	...	...	21·10	...	...
1336	7·2	30 35·355	35·42	...	...	...	...	− 60 40 46·12	46·28	...	...	...	...
1337	5·5	30 35·713	35·59	...	...	...	...	− 47 1 54·28	54·66	...	...	...	...
1338*	3·3	30 42·632	42·54	...	...	42·507	...	− 62 24 40·47	40·58	...	...	39·85	...
1339*	4·7	31 6·175	6·18	6·08	6·063	6·107	...	− 9 11 38·36	38·66	37·27	38·15	38·08	...
1340*	4·5	31 19·011	18·95	18·98	18·960	18·988	18·986	− 0 12 59·30	59·10	59·27	59·52	59·18	58·46
1341*	5·7	32 43·596	43·63	...	...	43·697	...	− 75 17 15·56	16·78	...	...	14·89	...

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		h m s	s	s	s	s	s	° ′ ″	″	″	″	″	″
1342	8·0	11 33 32·080	...	...	...	...	32·030	— 16 0 12·24	...	...	...	...	13·10
1343	6·6	34 16·760	...	...	...	...	16·607	— 0 38·30	...	...	...	...	38·56
1344*	5·0	34 44·927	44·99	44·96	...	...	44·873	— 8 6·34	6·05	5·26	...	...	8·21
1345	7·5	34 55·174	55·21	55·16	...	55·35	...	— 84 52 38·94	40·04	39·04	...	38·80	...
1346	6·8	37 23·449	23·45	...	...	23·559	...	— 74 37 0·79	1·45	...	...	0·70	...
1347	7·3	38 11·569	11·69	...	...	...	...	— 52 0 35·15	33·67	...	...	...	...
1348	7·0	38 37·639	37·89	...	...	...	...	— 62 16 1·82	3·17	...	...	...	...
1349*	4·9	39 11·241	11·19	11·17	11·250	11·207	11·249	— 17 44 21·19	20·31	20·30	20·96	20·81	21·06
1350*	3·9	...	...	...	...	...	...	+ 48 23 22·59	22·07	...	22·05	23·38	...
1351*	3·8	40 25·130	24·95	...	...	24·915	...	— 66 7 8·32	7·47	...	...	8·02	...
1352*	4·3	41 11·687	11·71	...	...	..	...	— 60 34 0·75	1·00	...	...	...	...
1353*	5·7	43 11·728	11·73	...	11·763	...	11·683	— 26 8 17·32	17·26	...	17·05	...	17·07
1354*	2·2	43 26·911	26·87	26·90	26·908	26·953	26·944	+ 15 11 12·67	13·41	13·79	12·60	13·43	13·79
1355	5·8	43 33·901	...	...	33·882	...	...	+ 16 51 21·27	...	...	20·94	...	...
1356*	3·7	44 57·899	57·89	57·87	57·912	57·890	57·917	+ 2 23 4·52	4·30	5·02	4·37	4·62	5·18
1357	6·5	45 3·709	3·95	...	...	...	...	— 26 39 59·05	59·83	...	...	...	...
1358*	4·6	45 38·759	38·73	...	...	...	...	— 44 33 41·12	40·88	...	...	...	...
1359	7·8	48 56·758	56·81	...	...	...	...	— 41 25 58·99	58·35	...	...	...	...
1360	6·7	50 19·768	19·80	...	...	...	...	— 39 4 36·26	35·93	...	...	...	...
1361	7·0	51 55·106	55·30	...	...	...	...	— 26 26 29·82	29·03	...	...	...	...
1363*	5·6	52 41·709	41·77	...	...	...	...	— 55 42 17·39	18·37	...	...	...	...
1365*	5·1	54 10·385	10·09	...	...	10·231	...	— 77 36 33·47	34·59	...	...	33·08	...
1366*	5·2	54 18·869	...	...	18·858	...	...	+ 4 16 4·00	4·08	...	4·44	...	...
1368*	4·4	55 14·188	14·13	14·20	14·122	14·134	14·187	+ 7 13 39·52	41·21	40·67	39·70	39·60	40·61
1369*	6·6	55 23·874	...	...	...	...	23·832	— 1 9 12·78	...	...	...	...	12·20
1370	5·9	56 50·394	51·56	51·32	...	50·94	...	— 85 1 8·99	9·51	9·40	...	9·58	...
1371*	4·5	57 25·587	25·59	...	...	...	...	— 62 42 2·05	2·12	...	...	...	...
1372*	5·4	57 57·772	57·75	...	...	...	...	— 41 49 5·12	5·19	...	...	...	...
1373	4·9	59 5·702	6·12	...	...	...	...	— 75 54 28·24	30·19	...	...	...	...
1374*	4·3	11 59 36·343	36·25	...	36·319	36·293	36·366	+ 9 20 37·96	38·07	...	38·03	38·68	38·54
1375	6·5	12 0 17·461	17·62	...	...	...	...	— 35 4 53·12	52·26	...	...	...	...
1376	8·0	0 34·652	34·80	...	...	...	...	— 69 11 7·94	8·32	...	...	...	...
1377	4·3	1 8·797	8·83	...	...	...	...	— 63 59 60·86	59·60	...	...	...	...
1378	7·2	1 51·923	51·99	...	...	...	...	— 44 58 7·66	6·60	...	...	...	...
1380	5·1	2 2·418	3·04	...	...	2·607	...	— 74 45 18·45	19·89	...	...	18·12	...
1382*	2·8	2 39·540	39·54	39·48	...	39·534	...	— 50 6 35·11	34·77	34·65	...	34·85	...
1383*	4·3	2 44·384	44·35	...	44·278	...	44·326	— 24 6 55·42	54·27	...	56·08	...	53·80
1384	6·0	3 12·458	12·42	12·46	...	...	...	— 43 42 44·09	44·05	44·16	...	...	...
1385	7·8	3 50·484	50·66	...	...	...	...	— 66 50 29·98	29·97	...	...	...	...
1386	*	4 21·753	21·72	...	...	...	21·430	— 34 5 31·97	31·06	...	...	...	26·97
1388*	3·1	4 27·995	27·96	28·00	28·006	28·031	27·954	— 22 0 27·79	28·27	27·85	29·05	28·30	27·32
1389	6·4	4 51·532	51·50	...	...	...	...	— 37 15 25·59	25·37	...	...	...	...
1390*	5·3	5 23·978	24·04	...	23·976	...	24·007	— 22 59 22·76	23·00	...	22·22	...	22·37
1391	7·0	5 43·858	43·61	...	...	...	...	— 43 40 10·41	10·34	...	...	...	...
1392	4·2	5 54·222	54·20	...	...	54·264	...	— 51 45 21·37	20·69	...	...	20·74	...
1393*	5·9	6 16·262	...	...	16·300	...	...	+ 26 28 59·01	...	...	58·91	...	...
1395*	5·8	7 49·866	...	...	...	49·830	...	+ 10 52 27·29	...	...	...	27·68	...
1396	6·5	7 54·059	54·08	...	...	...	53·891	— 33 10 50·28	49·72	...	...	...	49·13
1397	6·7	8 46·983	48·63	...	...	...	...	— 87 48 13·18	13·22	...	...	...	...
1398*	3·1	9 18·355	18·38	...	...	18·320	...	— 58 8 13·02	13·42	...	...	13·15	...

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		Cape. 1890.	Cape. 1880.	Melbourne. 1880.	Greenwich. 1880.	Cape. 1885.	Radcliffe. 1890.	Cape. 1890.	Cape. 1880.	Melbourne. 1880.	Greenwich. 1880.	Cape. 1885.	Radcliffe. 1890.
		h m s	s	s	s	s	s	° ′ ″	″	″	″	″	″
1399*	2·8	12 10 8·892	8·94	8·89	8·946	8·915	8·882	− 16 55 52·37	52·23	50·67	52·62	51·79	51·07
1400	6·5	10 19·676	19·88	...	...	...	...	− 72 0 9·12	8·80	...	...	...	...
1401*	6·1	.....	...	...	...	...	...	+ 41 16 22·11	...	...	20·46	...	...
1402*	4·2	11 37·884	37·84	...	...	...	...	− 67 20 55·04	56·26	...	...	...	...
1403*	4·3	11 54·219	54·33	54·38	...	54·339	...	− 78 42 5·16	5·29	4·92	...	5·11	...
1405	7·0	14 12·299	12·28	...	...	...	12·039	− 26 7 32·07	31·83	...	...	...	32·34
1406*	4·1	14 16·681	16·64	16·67	16·636	16·669	16·684	− 0 3 19·54	19·68	19·39	19·54	19·54	18·91
1407*	6·5	14 29·047	28·96	...	...	...	29·035	− 21 33 50·55	50·72	...	...	...	49·68
1408*	5·2	14 45·778	...	...	45·724	...	...	+ 3 55 30·34	...	...	31·87	...	...
1409*	3·5	15 25·591	25·57	...	...	...	...	− 59 47 35·43	35·42	...	...	...	...
1410	6·3	16 53·366	53·95	...	...	...	...	− 85 32 25·38	25·62	...	...	...	...
1412*	6·2	19 18·826	18·80	...	...	...	...	− 41 54 14·10	13·69	...	...	...	...
1414*	5·8	19 33·988	33·89	...	...	...	...	− 34 34 35·72	35·84	...	...	...	42·31
1415*	5·3	20 25·630	...	...	25·782	25·696	...	+ 39 37 44·47	...	...	44·22	46·01	...
1416*	1·5	20 28·978	29·02	28·93	...	28·926	...	− 62 29 21·40	21·40	21·37	...	20·97	...
1418*	5·6	21 3·880	3·83	...	...	...	3·617	− 32 13 12·48	12·88	...	...	...	10·58
1419	7·2	21 16·070	16·14	...	...	...	...	− 55 7 32·91	32·79	...	...	...	...
1420*	4·1	22 5·560	5·52	...	...	5·533	...	− 49 37 16·80	16·81	...	...	16·47	...
1421	6·9	22 6·724	...	...	6·902	...	6·786	− 16 1 23·27	...	...	...	...	23·28
1422	7·4	.....	...	...	...	...	...	+ 41 57 51·21	...	...	50·56	...	...
1424*	5·5	23 56·823	...	...	56·864	...	...	+ 24 43 2·66	...	...	1·66	...	...
1425*	3·0	24 10·360	10·30	10·33	10·323	10·322	10·292	− 15 54 10·78	10·85	9·51	11·01	10·67	9·73
1426*	5·7	24 11·650	...	...	...	11·626	...	+ 21 30 18·39	...	...	...	19·10	...
1427	7·5	24 14·787	14·90	...	...	...	...	− 31 27 4·06	3·89	...	...	...	...
1428*	*	24 24·591	...	...	...	...	24·469	− 12 47 1·03	...	...	...	..	0·38
1429*	1·6	25 3·984	4·13	...	...	3·977	...	− 56 29 49·61	50·56	...	...	49·64	...
1430*	4·0	25 54·274	54·18	...	...	54·233	...	− 71 31 30·74	30·74	...	...	30·70	...
1431	7·4	26 22·179	22·12	...	...	...	...	− 26 57 32·08	31·94	...	...	...	...
1432*	4·3	28 30·996	...	31·05	31·136	...	...	+ 41 57 19·14	...	18·58	19·09	...	...
1433*	2·8	28 36·554	36·45	36·49	36·527	36·502	36·461	− 22 47 17·70	17·89	17·63	18·81	17·62	17·50
1435*	5·2	29 36·729	...	...	36·710	36·659	...	+ 18 58 57·68	...	...	57·46	57·94	...
1436	7·1	30 6·955	6·92	...	...	...	...	− 51 48 40·27	40·73	...	...	...	...
1437*	2·9	30 37·861	37·75	...	...	37·717	...	− 68 31 45·32	45·21	...	...	45·66	...
1439	7·5	31 1·849	1·77	...	...	...	...	− 31 34 10·58	10·30	...	...	...	...
1440*	5·9	31 7·423	...	...	7·362	...	7·357	− 5 13 32·13	...	...	32·25	...	31·73
1442*	5·6	31 27·410	...	...	27·386	...	...	+ 17 41 43·90	...	...	44·60	...	...
1443	4·0	31 41·278	41·59	...	...	41·379	...	− 47 56 8·12	7·77	...	...	7·62	...
1445	6·7	32 11·647	11·72	...	...	11·800	...	− 74 45 54·01	56·85	...	...	54·92	...
1446*	6·1	.....	...	...	...	...	...	+ 41 28 47·49	...	...	47·96	...	...
1447*	2·4	35 27·057	27·05	...	...	27·071	...	− 48 21 19·94	19·89	...	...	19·95	...
1448*	3·6	36 5·082	5·11	5·06	5·047	5·147	5·081	− 0 50 43·15	43·33	42·54	43·15	43·16	42·43
1449*	3·6	36 5·333	5·11	...	5·221	...	5·177	− 0 50 46·92	46·83	...	48·52	...	47·70
1450*	6·6	37 42·089	41·65	41·72	...	41·90	...	− 89 11 43·54	43·35	43·20	...	43·50	...
1451*	5·9	38 8·731	8·78	...	8·786	...	8·641	− 27 43 12·63	12·71	...	12·04	...	11·77
1453*	3·3	39 32·449	32·33	...	...	32·312	...	− 67 30 20·70	20·82	...	...	20·22	...
1454	5·6	39 57·431	...	...	57·589	...	...	+ 46 2 30·62	...	...	29·48	...	...
1455	6·3	40 49·861	49·95	...	...	...	49·701	− 32 42 47·07	48·22	...	...	...	46·99
1456	7·2	41 2·975	3·00	...	...	...	...	− 80 6 5·96	7·40	...	...	...	...
1457*	1·5	41 17·830	17·84	...	...	17·747	...	− 59 5 14·34	14·23	...	...	13·54	...
1458*	5·4	43 29·143	29·19	29·10	...	29·12	...	− 84 31 31·97	31·85	32·50	...	32·22	...

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		Cape. 1890.	Cape. 1880.	Melbourne. 1880.	Greenwich. 1880.	Cape. 1885.	Radcliffe. 1890.	Cape. 1890.	Cape. 1880.	Melbourne. 1880.	Greenwich. 1880.	Cape. 1885.	Radcliffe. 1890.
		h m s	s	s	s	s	s	° ′ ″	″	″	″	″	″
1459*	5·1	12 44 43·098	43·10	...	...	...	42·910	− 33 23 58·14	57·25	...	...	...	57·50
1460	6·2	46 5·211	5·25	...	...	...	4·987	− 26 8 27·15	26·87	...	...	...	26·44
1461*	5·0	46 20·414	20·38	...	20·421	20·391	20·469	+ 28 8 21·16	22·37	...	21·75	21·99	22·20
1462	5·8	46 48·533	48·63	...	...	...	...	− 59 43 49·41	50·40	...	...	...	...
1463	7·2	47 9·136	9·35	...	...	..	...	− 38 47 32·46	32·34	...	...	...	...
1464*	4·3	47 20·716	20·64	...	...	...	...	− 39 34 49·47	48·48	...	...	...	...
1466	4·8	48 7·440	7·56	...	...	...	...	− 58 32 56·21	56·04	...	...	...	...
1467	7·1	48 59·184	59·12	...	...	...	...	− 41 41 37·91	37·15	...	...	...	...
1468	6·9	49 35·142	35·07	...	...	...	...	− 29 28 23·83	23·78	...	...	...	...
1470*	3·7	50 3·726	3·70	3·75	3·710	3·716	3·761	+ 3 59 42·97	43·13	44·01	42·99	43·43	43·58
1471	6·7	50 35·269	35·22	...	35·317	...	...	− 25 51 49·19	49·16	...	49·50	...	...
1472*	3·1	.....	...	...	...	...	...	+ 38 54 45·06	44·51	43·88	44·96	45·85	45·96
1473	6·9	51 35·617	...	...	...	...	35·629	− 8 18 55·69	...	...	...	...	54·99
1474*	3·6	54 42·712	42·58	...	...	42·663	...	− 70 57 19·04	18·88	...	...	19·07	...
1475	7·0	55 41·378	41·48	...	...	...	41·230	− 24 4 23·08	22·53	...	...	...	22·72
1476	7·1	55 53·229	59·24	56·52	...	55·84	...	− 86 58 5·73	3·47	4·31	...	4·96	...
1477	6·9	56 24·944	24·96	...	...	...	...	− 27 41 40·59	40·28	...	...	...	...
1478*	3·0	56 42·062	42·04	42·06	42·039	42·052	42·105	+ 11 33 1·66	2·13	2·76	1·50	2·27	2·61
1479	7·0	58 36·416	36·47	...	...	...	...	− 40 36 19·20	18·28	...	...	...	...
1480	7·7	59 12·669	12·80	...	...	...	...	− 27 55 37·57	36·34	...	...	...	...
1481	6·6	12 59 30·684	30·92	...	...	...	...	− 77 51 22·92	24·36	...	...	...	...
1482*	4·4	13 0 29·408	29·41	...	...	...	...	− 49 19 0·76	1·35	...	...	...	...
1483*	5·9	1 6·271	6·08	...	...	...	..	− 52 52 14·06	13·77	...	...	...	...
1484*	5·2	2 8·030	...	...	8·014	...	8·011	− 10 9 7·95	...	...	7·87	...	6·95
1486	7·3	2 14·929	15·01	...	...	...	...	− 35 38 12·38	12·18	...	...	...	...
1487*	4·4	4 15·238	15·23	15·24	15·247	15·249	15·251	− 4 57 5·79	6·13	5·61	6·22	5·50	4·83
1490	5·8	4 52·845	53·08	...	...	...	...	− 41 38 47·42	47·05	...	...	...	...
1491*	6·3	5 9·539	9·53	...	...	9·558	...	− 77 51 46·56	48·85	...	...	46·91	...
1492*	4·7	5 25·716	25·89	...	...	...	...	− 59 20 5·39	6·10	...	...	...	...
1495*	5·1	6 12·268	...	12·18	12·285	12·297	12·194	− 15 36 18·14	...	17·11	17·85	17·68	17·43
1496*	4·4	6 44·425	...	...	44·407	44·361	...	+ 28 26 9·18	...	...	9·23	9·44	...
1497	6·0	6 52·014	52·01	...	...	...	...	− 50 6 54·70	53·91	...	...	...	...
1498*	5·0	7 26·787	26·68	...	...	...	...	− 58 30 53·54	55·21	...	...	...	...
1499	7·5	7 35·285	35·37	...	...	...	...	− 69 53 40·85	40·55	...	...	...	...
1500*	4·9	7 47·989	48·04	...	...	...	...	− 67 18 40·32	40·28	...	...	...	...
1501	6·8	7 51·358	...	...	51·441	...	...	+ 19 18 42·88	...	...	43·46	...	...
1504	6·9	8 30·065	30·07	...	...	...	29·906	− 23 42 5·85	5·84	...	...	...	4·66
1505	5·0	.....	...	...	...	...	...	+ 40 44 7·42	...	...	7·74	...	...
1509	6·8	10 20·880	20·92	...	...	...	...	− 67 54 52·54	52·16	...	...	...	...
1510*	5·2	10 46·556	46·56	...	46·615	46·567	...	− 30 35 25·77	25·08	...	25·27	25·25	...
1511*	5·9	10 51·210	51·19	...	...	...	...	− 43 23 54·11	53·94	...	...	...	...
1513	6·9	11 35·120	...	...	...	...	35·016	− 10 54 12·10	...	...	...	...	11·58
1515	6·4	11 52·008	...	...	...	...	52·055	− 0 5 44·32	...	...	...	...	43·82
1516	6·7	11 58·536	58·47	...	...	...	...	− 50 42 20·01	19·64	...	...	...	...
1518*	4·7	12 36·567	...	...	...	36·524	...	+ 41 9 6·18	...	...	...	7·54	...
1519*	4·8	12 39·013	39·08	...	38·979	...	38·995	− 17 41 57·43	57·81	...	57·23	...	57·27
1520*	3·4	12 56·552	...	56·51	56·427	56·487	56·352	− 22 35 27·43	...	26·42	28·31	27·25	27·71
1522	6·2	13 59·332	59·43	...	...	...	...	− 55 13 22·45	22·58	...	...	...	...
1523*	3·0	14 24·809	24·77	...	...	24·811	...	− 36 7 54·68	54·28	...	...	54·29	...
1527*	7·3	16 19·270	...	...	...	...	19·215	− 12 0 11·66	...	...	...	...	9·90

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		Cape. 1890.	Cape. 1880.	Melbourne. 1880.	Greenwich. 1880.	Cape. 1885.	Radcliffe. 1890.	Cape. 1890.	Cape. 1880.	Melbourne. 1880.	Greenwich. 1880.	Cape. 1885.	Radcliffe. 1890.
		h m s	s	s	s	s	s	° ′ ″	″	″	″	″	″
1528	7·2	13 16 26·545	26·66	...	...	...	...	− 25 15 54·28	53·70	...	...	...	...
1530	7·2	18 17·425	18·12	...	...	18·62	...	− 85 15 17·70	17·03	...	...	...	...
1531	8·0	18 35·045	34·99	...	...	...	...	− 34 3 41·52	40·76	...	...	...	...
1532*	1·2	19 23·829	23·78	23·84	23·821	23·866	23·824	− 10 35 13·18	13·19	12·53	13·41	12·88	12·59
1533	8·0	19 44·951	45·80	...	...	...	...	− 86 9 31·73	32·17	...	...	...	...
1535*	5·5	20 54·472	54·50	...	54·450	...	54·416	− 12 8 6·10	6·75	...	5·85	...	5·65
1536	7·3	21 27·560	27·73	...	...	...	...	− 55 12 29·58	29·16	...	...	...	...
1539	5·3	22 40·966	40·84	...	...	...	...	− 50 35 41·42	42·50	...	...	...	...
1540*	5·7	23 14·424	14·63	14·60	...	14·53	...	− 85 13 17·25	17·56	17·59	...	17·40	...
1544*	4·0	24 39·976	39·81	...	...	...	...	− 38 50 20·23	19·06	...	...	...	...
1545	7·0	25 22·940	...	...	...	...	22·874	− 12 52 53·08	...	...	...	...	52·64
1546	6·7	25 26·532	26·56	...	...	...	...	− 27 32 43·68	44·10	...	...	...	...
1547	7·4	25 34·310	33·67	...	...	...	...	− 83 20 43·73	45·04	...	...	...	...
1548	7·8	25 39·340	...	...	39·321	...	...	+ 24 48 17·08	...	...	16·81	...	...
1550*	5·6	26 28·307	28·34	...	28·352	...	...	− 28 7 32·60	31·86	...	34·66	...	...
1551	6·2	26 29·391	...	...	29·407	...	...	+ 42 40 20·50	...	...	19·76	...	...
1553	7·0	27 23·157	23·31	...	...	...	...	− 39 22 50·16	50·17	...	...	...	...
1555	7·0	28 37·012	...	...	...	...	36·874	− 12 46 56·90	...	...	...	...	56·07
1556	6·9	28 58·982	58·93	...	...	...	...	− 31 38 51·55	51·69	...	...	...	...
1557*	3·5	29 5·280	5·23	5·27	5·239	5·249	5·289	− 0 1 59·91	59·60	59·62	59·63	59·28	59·02
1559*	6·6	29 48·253	48·13	...	...	...	...	− 75 7 20·03	20·45	...	...	...	...
1560*	5·0	.....	...	...	...	...	...	+ 37 44 46·37	...	...	45·70	46·64	46·63
1562	7·3	30 42·100	42·18	...	42·111	...	...	− 25 56 11·15	11·46	...	11·38	...	...
1563*	6·3	30 42·273	42·26	...	42·258	...	...	− 25 56 1·22	1·14	...	1·40	...	...
1564	7·0	31 31·235	31·31	...	...	...	...	− 42 12 14·96	14·76	...	...	...	...
1567	7·0	32 18·912	19·23	...	...	...	...	− 74 33 24·31	25·07	...	...	...	...
1568	5·6	32 31·198	31·32	...	31·275	...	31·123	− 28 59 55·61	54·19	...	55·71	...	53·66
1570	8·7	32 45·665	46·04	...	...	...	...	− 87 4 5·19	5·74	...	...	...	...
1571*	2·6	32 55·245	55·16	...	...	55·206	...	− 52 54 24·53	24·81	...	...	24·01	...
1572	5·8	33 20·776	21·00	...	...	...	...	− 39 29 28·60	26·47	...	...	...	...
1573	7·6	34 11·676	11·76	...	...	...	...	− 33 48 0·41	0·19	...	...	...	...
1574	6·3	35 34·554	...	...	34·508	...	...	+ 28 37 18·69	...	...	19·59	...	...
1575*	5·3	35 50·281	50·30	50·30	50·256	50·295	50·259	− 8 8 52·13	51·50	50·85	51·74	51·39	51·24
1576	7·3	36 47·609	47·64	...	...	...	...	− 29 37 38·71	39·07	...	...	...	...
1579*	5·8	38 33·690	...	...	...	...	33·620	− 15 37 32·52	...	...	...	...	31·44
1580*	4·3	39 26·224	26·36	...	26·223	...	25·902	− 32 29 13·75	13·47	...	13·89	...	11·63
1581	5·8	39 28·558	28·52	...	28·596	...	...	− 25 33 48·80	47·85	...	48·46	...	...
1582*	4·6	39 41·730	41·74	...	...	...	...	− 50 52 49·10	49·69	...	...	...	...
1583	5·8	41 33·290	...	...	33·297	...	...	+ 41 38 25·24	...	...	25·79	...	...
1584	5·8	41 39·650	39·47	...	...	39·80	...	− 82 7 13·66	13·66	...	...	13·20	...
1585*	4·5	42 2·084	2·07	2·06	2·072	2·070	2·115	+ 18 0 19·29	17·34	20·29	18·53	19·25	19·01
1587	3·5	42 54·407	54·52	...	...	54·463	...	− 41 8 20·87	19·42	...	...	20·72	...
1588*	3·3	42 59·457	59·49	...	...	59·337	...	− 41 55 30·76	30·37	...	...	30·90	...
1589*	4·3	43 4·388	4·42	...	4·364	...	...	− 33 54 3·88	3·28	...	7·36	...	...
1591*	5·2	43 53·682	...	53·60	53·675	53·657	53·600	− 17 35 9·26	...	8·94	9·72	8·87	9·50
1592	7·5	44 11·770	...	...	...	..	11·712	− 20 19 22·09	...	...	...	...	20·84
1593	8·0	44 45·910	...	...	...	...	45·861	− 7 3 4·19	...	...	...	...	3·62
1595	5·4	44 59·694	59·76	...	...	...	...	− 52 15 56·09	55·57	...	...	...	...
1597	6·7	45 42·216	42·29	...	...	...	...	− 31 4 23·27	22·20	...	...	...	...
1598	7·9	46 0·254	0·37	...	...	...	...	− 30 14 26·29	26·21	...	...	...	...

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		h m s	s	s	s	s	s	° ′ ″	″	″	″	″	″
1600	6·3	13 47 28·596	28·94	...	...	...	...	— 34 46 11·83	9·91	...	...	...	...
1602	7·2	48 1·063	1·04	...	...	...	...	— 28 12 2·98	2·27	...	...	...	...
1603*	2·8	48 40·799	40·68	...	...	40·724	...	— 46 44 46·81	47·22	...	...	46·85	...
1604	7·0	49 4·357	4·29	...	...	...	...	— 41 27 15·80	15·34	...	...	...	...
1605*	2·9	49 26·800	26·75	26·78	26·798	26·790	26·856	+ 18 56 57·47	58·47	58·40	57·72	58·52	58·15
1606	6·6	49 30·272	30·58	...	...	...	...	— 46 3 1·70	1·16	...	...	...	...
1607*	4·8	49 41·664	41·61	...	...	...	...	— 63 8 48·67	49·45	...	...	...	...
1608	7·3	50 10·185	10·28	...	...	...	...	— 37 46 46·17	46·63	...	...	...	...
1609*	4·0	51 35·109	35·12	...	...	35·107	...	— 41 33 46·94	46·21	...	...	46·28	...
1610	7·7	51 46·484	46·70	...	...	...	...	— 65 0 20·74	21·06	...	...	...	...
1611	4·1	51 53·187	53·23	...	...	53·171	...	— 44 15 59·01	57·59	...	...	58·26	...
1612*	5·1	52 20·805	20·83	20·81	20·899	20·813	20·696	— 24 26 5·54	5·48	5·02	6·49	5·46	6·34
1614*	5·9	53 50·512	50·48	...	50·530	...	50·357	— 24 28 22·76	22·82	...	23·70	...	22·82
1615	6·8	54 7·320	...	...	...	...	7·210	— 3 0 49·12	...	...	...	...	48·58
1616	Var.	54 37·661	38·14	38·05	...	37·725	...	— 76 15 54·52	55·04	54·24	...	54·73	...
1617	6·7	54 40·535	40·61	40·64	...	...	...	— 39 41 20·24	18·93	19·38	...	...	...
1618*	4·4	56 2·913	2·85	2·89	2·846	2·881	2·898	+ 2 4 37·50	38·35	37·64	37·61	37·75	38·15
1619*	0·8	56 3·887	3·89	3·82	...	3·842	...	— 59 50 30·71	31·08	30·54	...	30·23	...
1620	5·7	56 7·438	7·47	...	7·455	...	7·283	— 26 53 52·96	53·54	...	53·98	...	52·36
1621*	6·1	56 11·221	...	...	11·188	11·242	...	+ 27 55 5·19	...	...	5·30	4·93	...
1622	7·0	56 23·885	23·84	...	...	...	...	— 26 18 60·14	59·28	...	...	...	...
1623	6·3	57 44·940	...	...	...	...	44·889	— 21 53 33·36	..	...	...	...	32·58
1624	6·9	13 58 40·141	40·21	...	...	...	...	— 59 11 19·51	19·74	...	...	...	...
1625	*	14 0 4·318	4·49	...	...	...	...	— 62 45 9·08	7·28	...	...	...	...
1626*	3·5	0 6·422	6·42	...	6·437	6·392	6·334	— 26 9 7·57	6·85	...	9·46	7·06	6·44
1627*	2·2	0 12·554	12·52	...	12·533	12·564	...	— 35 49 42·31	41·91	...	45·59	42·00	...
1628	6·9	0 34·658	34·71	...	...	...	...	— 49 20 45·47	47·23	...	...	...	...
1629*	5·7	0 53·777	...	...	53·728	53·696	53·743	— 8 47 18·52	...	...	17·52	18·48	17·45
1630	6·1	1 21·493	21·30	...	...	...	...	— 69 46 58·45	58·26	...	...	...	...
1633	6·9	4 25·683	25·78	...	...	...	...	— 31 33 21·45	20·32	...	...	...	...
1634*	5·0	4 27·208	27·31	...	...	...	...	— 80 29 27·25	27·41	...	...	...	...
1635	9·1	4 46·849	...	...	...	46·922	...	— 11 7 4·77	...	...	...	3·39	...
1636	7·8	4 57·103	57·15	...	...	...	...	— 29 15 53·64	53·57	...	...	...	...
1637*	4·8	5 22·931	...	...	22·929	22·894	...	+ 25 36 46·80	...	...	46·54	47·21	...
1639	6·7	6 11·138	11·15	...	...	..	11·050	— 23 50 43·94	43·27	...	...	...	43·14
1640*	5·2	6 27·930	27·89	...	...	...	...	— 26 44 34·60	34·86	...	...	...	...
1641*	6·3	6 55·890	55·83	...	...	...	...	— 26 5 42·61	43·26	...	...	...	...
1642*	4·3	7 1·658	1·69	1·67	1·632	1·648	1·617	— 9 45 41·11	40·32	40·84	41·14	40·64	40·43
1643	8·1	7 6·746	10·36	8·55	...	8·05	...	— 88 52 25·24	24·76	25·02	...	25·31	...
1645	5·9	7 57·618	57·76	...	...	...	...	— 66 4 27·79	27·96	...	...	...	...
1646	6·8	8 11·089	11·45	...	...	...	...	— 82 20 25·45	26·54	...	...	...	...
1647	6·1	8 39·104	39·13	...	39·136	...	...	— 28 46 3·23	3·34	...	3·05	...	...
1648	6·7	8 39·874	39·67	...	...	...	...	— 44 28 60·02	56·54	...	...	...	...
1650*	5·5	9 20·341	...	...	20·379	...	20·296	— 17 41 13·92	...	...	14·34	...	13·21
1651*	4·1	9 21·421	21·60	21·27	...	21·36	...	— 83 9 45·81	46·94	46·11	...	45·89	...
1653*	4·2	10 14·740	...	14·78	14·771	14·717	14·789	— 5 28 31·24	...	31·32	32·41	31·07	30·30
1654*	4·3	...	...	...	...	...	...	+ 46 35 38·29	...	...	36·78	39·23	...
1655*	3·9	12 21·722	21·80	...	...	21·835	...	— 45 32 59·87	59·71	...	...	59·54	...
1656*	4·4	12 38·686	38·58	...	...	...	...	— 55 52 44·91	46·07	...	...	...	...
1657	7·0	12 47·579	47·61	...	...	...	...	— 26 37 59·81	59·59	...	...	...	...

No.	Mag.	Mean R.A. 1890·0.						Mean Dec. 1890·0.					
		Cape. 1890.	Cape. 1880.	Melbourne. 1880.	Greenwich. 1880.	Cape. 1885.	Radcliffe. 1890.	Cape. 1890.	Cape. 1880.	Melbonrne. 1880.	Greenwich. 1880.	Cape. 1885.	Radcliffe. 1890.
		h m s	s	s	s	s	s	° ′ ″	″	″	″	″	″
1658	7·0	14 13 4·995	5·06	...	...	...	...	— 36 21 1·29	1·53	...	...	...	...
1659*	4·6	13 9·471	9·39	...	9·416	9·415	9·349	— 12 51 51·96	51·95	...	52·04	51·34	51·22
1660*	5·2	13 52·409	...	...	...	...	52·322	— 1 45 24·25	...	...	...	...	23·60
1661*	5·9	15 59·584	59·36	...	...	...	...	— 67 41 39·36	39·93	...	...	...	...
1662	6·0	16 0·123	0·15	...	...	...	...	— 50 16 11·01	11·14	...	...	...	...
1663*	4·6	16 15·586	15·56	...	...	...	...	— 39 0 31·85	31·75	...	...	...	...
1664	7·0	16 22·617	22·66	...	...	...	...	— 41 45 2·79	2·87	...	...	...	...
1665*	4·9	16 45·423	45·37	...	...	...	45·411	— 27 14 55·20	54·56	...	...	...	55·06
1666	7·0	17 42·012	42·04	...	...	...	...	— 32 35 11·26	10·25	...	...	...	...
1667*	5·4	18 32·023	32·03	...	...	...	31·900	— 24 18 24·03	23·83	...	...	...	23·77
1668	7·0	19 2·451	2·40	...	...	...	...	— 28 23 42·68	41·71	...	...	...	...
1669	4·6	19 4·614	4·59	...	...	4·641	...	— 44 43 23·70	23·07	...	...	24·35	...
1670	4·4	19 6·501	6·46	...	...	...	...	— 44 52 53·26	53·45	...	...	...	...
1671	6·9	19 18·987	19·18	...	...	...	...	— 41 49 9·99	9·14	...	...	...	...
1673	6·8	20 0·657	0·79	...	...	...	...	— 39 22 36·88	37·19	...	...	...	...
1674	7·3	20 20·509	20·68	...	...	...	...	— 75 46 53·64	54·26	...	...	...	...
1675*	5·4	21 20·350	20·34	20·35	20·355	20·292	20·427	+ 19 43 17·88	17·80	19·21	18·06	18·62	18·87
1676*	5·0	21 43·836	43·90	...	43·883	...	43·714	— 28 59 49·03	48·69	...	49·54	...	48·90
1677*	4·9	22 32·134	...	32·11	32·008	32·067	31·968	— 1 44 3·81	...	4·07	4·31	4·02	3·69
1678*	5·9	22 53·606	53·50	...	53·613	...	53·526	— 6 24 22·37	21·97	...	23·41	...	20·77
1679	7·8	24 6·722	6·90	...	...	...	...	— 79 30 40·62	41·69	...	...	...	...
1680	7·9	24 41·551	41·54	...	41·544	...	...	— 24 49 30·87	31·71	...	31·87	...	...
1682*	3·6	27 5·344	5·29	5·31	5·339	5·369	5·402	+ 30 51 16·32	16·71	16·02	16·33	16·61	16·45
1683	6·9	27 9·537	9·70	...	...	...	...	— 41 36 50·27	49·78	...	...	...	...
1684	7·0	27 15·588	15·76	...	...	...	...	— 56 4 42·28	41·36	...	...	...	...
1686*	3·1	...	...	...	...	...	...	+ 38 47 22·69	...	...	23·06	23·94	23·49
1687*	2·5	28 31·374	31·31	31·35	...	31·406	...	— 41 40 27·26	26·41	27·05	...	26·70	...
1688	8·0	28 44·392	44·54	...	...	...	...	— 61 31 46·55	46·64	...	...	...	...
1690	7·5	29 25·843	25·87	...	...	...	...	— 34 25 30·24	29·68	...	...	...	...
1691	6·7	29 48·764	49·10	...	...	...	...	— 76 32 5·76	5·13	...	...	...	...
1693*	6·6	31 8·646	...	...	8·682	...	8·604	— 11 50 14·78	...	...	14·66	...	14·45
1694	6·7	31 27·607	27·63	...	...	...	...	— 38 18 56·40	55·62	...	...	...	...
1695	6·7	31 42·769	42·87	...	...	...	...	— 34 47 51·55	51·16	...	...	...	...
1696*	3·5	α^1 Centauri	...	...	...	...	...	.....	...	...	...	...	...
1697*	1·0	α^2 Centauri	...	...	...	...	...	.....	...	...	...	...	...
1698*	6·9	33 16·338	16·35	...	...	...	...	— 26 14 51·16	49·74	...	...	...	...
1699*	3·4	33 37·349	37·33	...	...	37·353	...	— 64 29 43·77	43·40	...	...	43·72	...
1700	7·8	34 4·786	4·56	...	...	...	...	— 86 1 8·77	8·88	...	...	...	...
1701*	3·8	34 13·282	13·51	...	...	13·671	...	— 78 34 36·24	37·83	...	...	36·63	...
1702*	2·5	34 36·912	36·88	...	...	36·885	...	— 46 54 55·94	55·62	...	...	55·20	...
1703*	5·3	...	...	...	...	...	...	+ 44 52 47·61	...	...	46·32	...	...
1704*	6·5	34 58·341	58·33	58·64	...	59·08	...	— 87 41 54·90	54·77	54·58	...	54·62	...
1705	4·2	35 7·617	7·84	...	...	...	...	— 37 19 14·87	14·18	...	...	...	...
1706	7·2	35 14·987	15·00	...	...	...	...	— 29 13 31·24	30·60	...	...	...	...
1707*	5·0	35 33·487	...	...	33·406	33·443	...	+ 16 53 24·89	...	...	23·96	24·85	...
1708*	3·8	35 53·732	...	...	53·746	53·789	53·759	+ 14 12 1·61	...	...	1·94	1·12	2·91
1709	7·0	35 54·961	54·98	...	...	...	...	— 47 6 1·51	1·10	...	...	...	...
1710*	5·0	36 14·591	...	...	14·645	...	...	+ 8 37 57·72	...	...	55·97	...	...
1711*	5·2	36 34·625	34·70	...	...	...	...	— 62 24 19·86	20·12	...	...	...	...
1712*	5·9	36 52·002	52·06	...	...	...	51·959	— 24 31 41·89	42·18	...	...	...	41·59

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		Cape. 1890.	Cape. 1880.	Melbourne. 1880.	Greenwich. 1880.	Cape. 1885.	Radcliffe. 1890.	Cape. 1890.	Cape. 1880.	Melbourne. 1880.	Greenwich. 1880.	Cape. 1885.	Radcliffe. 1890.
		h m s	s	s	s	s	s	° ′ ″	″	″	″	″	″
1713*	3·8	14 36 55·810	55·76	55·65	55·807	...	55·567	— 34 41 57·99	58·06	58·54	62·21	...	63·43
1714*	3·9	37 15·814	15·74	15·85	...	15·765	15·789	— 5 10 46·85	47·89	46·16	...	46·20	46·50
1715	5·0	38 14·419	14·48	...	...	...	14·159	— 34 43 30·82	30·95	...	...	...	35·70
1716*	Var.	38 35·296	...	...	35·318	...	...	+ 26 59 44·48	...	...	44·45	...	...
1717*	5·1	39 19·787	19·73	...	...	...	...	— 51 55 2·03	2·73	...	...	...	...
1718	6·5	39 31·615	31·55	...	...	...	...	— 51 44 30·10	29·87	...	...	...	...
1719*	6·6	39 53·855	...	...	...	...	53·751	— 14 59 43·85	...	...	44·22	...	43·88
1720*	2·7	40 10·957	10·93	10·95	10·955	10·895	11·010	+ 27 32 18·14	...	17·37	17·60	18·35	18·59
1721*	3·7	40 41·248	...	41·27	41·255	41·227	...	+ 2 21 24·20	...	24·72	24·18	24·70	...
1722*	6·4	40 58·410	...	...	...	...	58·344	— 20 51 46·45	...	...	...	...	46·51
1723*	5·8	40 58·665	58·56	...	...	...	..	— 25 9 42·41	42·84	...	...	...	...
1724*	6·1	41 31·412	31·49	...	...	...	...	— 26 11 5·99	5·88	...	...	...	...
1725	7·5	41 49·536	49·58	...	...	...	...	— 78 25 43·11	43·69	...	...	...	...
1726	6·9	42 6·187	6·32	...	...	...	...	— 25 1 56·28	58·32	...	...	...	...
1727	5·7	42 57·368	57·48	...	57·384	...	57·280	— 23 47 34·29	34·57	...	35·38	...	34·57
1729	4·4	44 27·529	27·63	...	...	27·568	...	— 43 7 10 22	9·80	...	...	9·64	...
1730*	5·3	44 36·117	...	36·12	36·132	36·100	35·980	— 15 32 21·96	...	21·42	22·68	21·79	22·33
1731*	3·0	44 47·558	47·53	47·57	47·551	47·537	47·523	— 15 35 3·42	2·77	3·10	3·79	3·19	3·04
1732*	6·0	.....	...	...	...	...	...	+ 38 15 53·50	...	...	53·42	...	...
1733*	Var.	45 22·168	22·27	...	...	...	...	— 76 12 48·61	48·66	...	...	...	...
1734	5·5	45 41·696	42·15	41·87	...	41·82	...	— 82 35 44·43	44·29	43·89	...	44·24	...
1735*	5·3	47 5·891	5·86	...	...	...	...	— 59 39 41·53	41·79	...	...	...	...
1736*	5·7	47 56·775	56·66	...	56·686	56·787	56·749	— 24 11 29·13	30·87	...	31·09	30·95	30·38
1737*	5·9	48 24·467	...	...	24·486	...	24·495	— 11 26 56·25	...	...	57·14	...	55·58
1738*	5·3	48 59·586	59·65	...	59·676	59·667	...	— 33 24 30·79	30·29	...	31·97	30·32	...
1739	7·8	49 44·448	44·47	...	...	...	.	— 34 11 5·68	5·35	...	...	...	...
1740	6·3	50 39·798	39·83	...	...	39·821	39·767	— 28 42 44·63	43·95	...	...	43·83	42·95
1741*	5·7	51 1·707	...	...	1·742	1·672	...	+ 14 53 28·13	...	...	28·64	28·52	...
1742*	6·3	51 2·526	...	...	2·519	...	2·408	— 20 55 7·53	...	...	7·94	...	6·06
1743	7·0	51 5·907	5·85	...	...	...	...	— 24 59 52·28	53·04	...	..	...	...
1744*	2·7	51 19·680	19·55	...	...	19·638	...	— 42 41 24·87	24·58	...	...	24·58	...
1746*	4·5	51 26·372	26·26	...	...	...	26·273	— 3 53 53·35	53·12	...	...	...	52·81
1747*	3·4	52 0·351	0·49	...	...	0·261	...	— 41 39 43·95	43·24	...	...	43·89	...
1748*	5·8	52 8·646	8·67	...	...	...	8·490	— 27 12 54·90	54·19	...	...	...	54·14
1749*	Var.	55 5·693	...	5·77	...	5·665	5·672	— 8 4 56·05	...	54·35	...	55·03	54·85
1750	6·6	55 10·218	10·15	...	...	...	...	— 33 55 20·49	19·86	...	...	...	...
1751*	3·8	57 37·763	37·69	...	...	37·740	...	— 46 37 12·50	12·64	...	...	11·87	...
1752*	3·3	57 37·852	37·87	37·88	37·890	37·870	37·815	— 24 50 56·84	56·65	57·10	57·06	56·72	56·49
1753*	3·6	57 48·108	...	48·13	48·141	48·078	...	+ 40 49 28·36	...	28·02	29·50	29·74	...
1754	5·3	58 10·254	10·26	10·31	...	...	...	— 40 38 14·38	14·23	13·86	...	...	...
1755	6·7	59 19·318	19·35	...	...	...	...	— 25 21 38·60	38·36	...	...	...	...
1756*	4·5	59 43·917	43·87	43·90	43·885	43·860	43·944	+ 27 22 36·41	35·36	36·65	36·35	37·57	37·46
1757*	7·2	14 59 45·832	45·91	...	...	...	45·733	— 23 42 4·83	6·34	...	...	...	5·27
1758*	5·3	15 0 9·716	...	...	9·978	...	...	+ 48 4 59·29	...	...	58·34	...	...
1760	6·4	1 15·457	15·77	...	...	...	...	— 72 21 0·41	0·40	...	...	...	...
1761	6·0	1 23·407	23·49	...	...	...	...	— 42 26 37·51	37·02	...	...	...	...
1763	6·6	3 4·167	4·18	...	...	...	...	— 38 22 16·96	16·52	...	...	...	...
1764	6·8	3 26·267	26·36	...	26·366	...	26·235	— 23 33 52·91	52·84	...	53·56	...	52·82
1765	6·2	3 48·188	48·31	...	...	...	48·147	— 25 54 45·82	45·20	...	...	...	45·08
1767*	4·2	4 17·246	17·29	...	...	17·249	...	— 48 19 7·98	8·04	...	...	7·55	...

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		Cape. 1890.	Cape. 1880.	Melbourne. 1880.	Greenwich. 1880.	Cape. 1885.	Radcliffe. 1890.	Cape. 1890.	Cape. 1880.	Melbourne. 1880.	Greenwich. 1880.	Cape. 1885.	Radcliffe. 1890.
		h m s	s	s	s	s	s	° ′ ″	″	″	″	″	″
1768*	3·5	15 4 23·035	23·12	...	...	23·049	...	— 51 40 47·80	47·91	...	...	46·90	...
1770*	4·9	5 57·081	57·02	56·99	57·035	57·046	57·012	— 19 22 29·40	29·30	30·39	29·97	29·56	28·99
1771	6·4	6 11·520	11·48	...	...	...	...	— 35 40 34·70	33·68	...	...	...	...
1772*	6·4	7 2·959	2·93	...	...	...	2·945	— 24 53 37·48	36·86	...	...	...	37·06
1773*	6·7	8 19·987	...	...	20·042	...	19·953	— 0 55 29·06	...	...	28·09	...	27·05
1774*	3·0	8 38·817	38·88	38·85	...	38·813	...	— 68 16 20·20	20·41	19·77	...	19·58	...
1777*	4·0	8 54·312	54·45	...	...	...	...	— 58 23 22·21	23·06	...	...	...	...
1778	6·9	9 4·748	4·84	...	...	...	...	— 27 11 15·48	15·30	...	...	...	...
1780*	5·4	9 43·265	...	...	...	43·221	...	+ 5 20 52·43	...	...	...	53·53	...
1781*	5·8	10 0·496	0·46	...	0·416	...	0·240	— 21 59 31·00	31·40	...	31·57	...	31·01
1782	6·6	10 37·944	37·99	...	...	...	...	— 67 4 42·98	42·11	...	...	...	...
1783*	4·2	10 52·892	52·79	52·93	...	...	...	— 47 28 10·06	11·40	10·96	...	...	...
1784	6·9	10 55·510	55·60	...	...	...	...	— 40 39 22·20	22·08	...	...	...	...
1785*	3·5	11 4·089	...	...	4·096	...	4·129	+ 33 43 32·15	...	...	32·16	...	32·21
1786*	2·7	11 5·249	5·20	5·24	5·215	5·230	5·188	— 8 58 35·86	36·39	35·36	36·10	35·63	35·26
1788	5·7	11 43·603	43·66	...	...	43·629	...	— 40 23 3·29	3·23	...	...	3·79	...
1789	7·0	11 56·749	56·71	...	...	...	...	— 30 48 21·62	20·82	...	...	...	..
1790	7·8	12 8·295	8·31	...	..	...	...	— 24 35 46·60	46·39	...	...	...	...
1791	8·0	13 18·400	18·37	...	...	...	...	— 34 31 27·86	27·20	...	...	...	...
1793*	3·4	14 9·124	9·14	...	...	9·181	...	— 40 14 54·83	54·89	...	...	54·59	...
1794	5·0	14 28·536	28·76	...	...	...	...	— 47 31 36·10	33·81	...	...	...	...
1795*	3·3	14 49·575	49·53	...	...	...	...	— 35 51 41·79	41·68	...	...	...	...
1796*	6·0	14 52·361	...	...	52·426	...	52·378	— 15 9 4·10	...	...	5·18	...	3·69
1797	3·6	15 12·723	12·85	...	...	12·735	...	— 44 17 35·40	34·49	...	...	35·27	...
1798*	7·0	16 53·640	53·61	...	53·619	...	53·577	— 14 44 26·89	28·32	...	27·32	...	26·92
1799*	5·3	17 24·314	...	...	24·312	...	...	+ 33 19 40·14	...	...	39·39	...	...
1801	5·3	17 33·943	33·99	...	...	...	...	— 39 19 2·58	2·12	...	...	...	...
1802	7·0	17 36·758	36·67	...	...	...	...	— 52 40 4·00	4·29	...	...	...	...
1803*	5·7	18 0·826	0·57	1·05	...	0·98	...	— 84 5 46·17	46·67	46·45	...	46·04	...
1804	7·8	18 29·861	29·94	...	...	...	...	— 35 48 32·44	31·66	...	...	...	...
1806*	5·6	19 32·288	32·37	...	...	...	...	— 73 0 24·07	23·81	...	...	...	...
1807*	4·0	.....	...	...	...	...	19·992	+ 37 45 48·46	47·25	...	47·45	48·23	47·74
1808	8·0	20 28·656	28·84	...	...	..	...	— 78 42 33·54	33·52	...	...	...	...
1809*	5·5	20 41·285	...	...	...	41·260	...	+ 15 48 54·37	...	...	...	55·28	...
1811	4·9	21 44·977	45·00	...	...	...	...	— 46 21 0·90	1·05	...	...	...	...
1812*	6·2	22 3·167	3·13	3·12	3·138	3·151	3·137	— 16 19 56·83	57·00	56·36	57·38	56·95	56·31
1815*	3·8	23 17·572	...	...	17·599	17·622	17·607	+ 29 29 6·18	...	...	7·04	7·28	7·06
1816	6·5	24 14·780	...	...	...	...	14·755	— 20 20 57·66	...	...	...	...	56·70
1818	7·5	25 45·929	45·83	...	...	...	...	— 23 30 18·11	18·08	...	...	...	...
1819*	4·1	26 39·484	39·35	...	...	...	...	— 65 56 45·37	46·05	...	...	...	...
1820*	5·1	26 58·580	...	...	58·689	...	...	+ 41 12 30·39	...	...	29·91	...	...
1822*	3·0	27 48·662	48·70	...	...	48·611	...	— 40 47 46·83	45·61	...	...	46·14	...
1823*	5·0	.....	...	...	...	...	...	+ 41 16 23·52	...	...	22·84	...	...
1824*	4·3	28 29·636	...	...	29·647	29·569	...	+ 31 43 50·46	...	...	50·25	50·96	...
1825	8·5	28 34·033	34·00	...	...	...	...	— 24 44 9·25	9·13	...	...	...	...
1826	7·4	28 41·987	42·21	...	...	...	...	— 25 21 52·72	53·25	...	...	...	...
1827	6·5	29 8·028	8·42	..	...	...	...	— 69 51 48·19	47·10	...	...	...	...
1828*	4·0	29 22·370	...	22·34	22·367	22·340	22·253	— 14 25 19·69	...	18·93	20·03	19·47	18·75
1829	7·3	29 24·046	24·14	...	...	...	...	— 40 41 37·97	36·84	...	...	...	...
1834	7·8	29 50·826	50·85	...	...	...	...	— 40 39 11·11	11·14	...	...	...	...

No.	Mag.	Mean R.A. 1890·0.						Mean Dec. 1890·0.					
		Cape. 1890.	Cape. 1880.	Melbourne. 1880.	Greenwich. 1880	Cape. 1885.	Radcliffe. 1890.	Cape. 1890.	Cape. 1880.	Melbourne. 1880.	Greenwich. 1880.	Cape. 1885.	Radcliffe. 1890.
		h m s	s	s	s	s	s	° ′ ″	″	″	″	″	″
1835*	2·4	15 30 1·764	1·78	1·78	1·800	1·843	1·843	+ 27 5 6·00	7·33	6·55	6·21	7·17	8·11
1837*	3·9	30 20·738	20·71	...	...	20·731	20·663	— 27 46 12·49	11·94	...	...	12·11	10·90
1838*	4·0	30 38·611	38·52	...	...	...	...	— 42 12 19·84	18·41	...	...	...	...
1839*	5·4	30 39·143	39·04	...	...	...	...	— 52 0 32·10	32·55	...	...	...	...
1840	7·2	31 5·747	5·93	...	...	...	...	— 55 3 55·30	55·61	...	...	...	...
1843*	4·4	32 46·739	46·76	46·73	46·751	...	...	— 34 3 7·84	7·74	7·66	8·35	...	...
1845	7·7	.....	...	...	...	...	...	— 44 15 49·07	47·98	...	...	...	...
1846	6·9	33 26·049	26·11	...	...	...	...	— 30 51 16·27	16·51	...	...	...	...
1847*	4·5	33 37·628	37·76	...	...	37·741	...	— 44 17 46·64	46·64	...	...	46·05	...
1848*	5·2	33 46·685	46·65	...	46·721	...	46·556	— 23 27 34·82	35·46	...	35·64	...	34·82
1849*	5·4	33 52·607	...	...	52·603	52·592	...	+ 40 42 42·27	...	...	42·76	44·81	...
1850	7·5	34 48·177	48·19	...	...	...	...	— 28 56 38·51	38·80	...	...	...	...
1851*	5·2	35 14·181	...	...	14·174	14·086	...	+ 36 59 35·25	...	...	35·71	36·77	...
1852	5·2	35 29·333	29·36	...	...	...	...	— 37 4 15·60	14·82	...	...	...	...
1853*	5·0	35 36·500	36·57	..	...	36·476	36·514	— 19 19 18·57	18·18	...	...	18·03	16·96
1854*	4·8	35 40·421	40·45	...	...	...	40·261	— 34 21 23·32	23·43	...	...	...	27·08
1857	7·5	36 37·697	37·71	...	...	...	...	— 30 11 0·38	0·85	...	...	...	...
1858	6·7	36 57·416	57·43	...	...	...	...	— 41 28 5·39	4·32	...	...	...	...
1859	6·8	37 2·567	...	...	...	...	2·415	— 12 42 8·94	...	...	...	...	7·23
1860*	4·2	38 7·356	...	...	7·401	7·465	7·424	+ 26 38 39·58	...	...	39·91	40·75	40·67
1863*	2·7	38 50·969	50·95	50·99	50·930	50·960	51·006	+ 6 46 19·45	20·29	19·62	19·46	19·88	20·93
1864	7·3	38 59·211	59·29	...	...	...	...	— 29 41 40·08	40·19	...	...	...	...
1866	5·7	39 42·734	42·70	42·67	...	...	...	— 34 20 13·98	14·42	14·00	...	...	...
1868*	3·8	41 6·600	...	...	6·662	6·677	6·646	+ 15 45 58·99	...	...	59·17	58·68	60·14
1869	7·5	41 28·261	28·19	...	...	..	...	— 24 52 26·84	26·59	...	...	...	...
1872*	4·3	43 47·318	...	...	47·286	47·118	47·344	+ 18 28 53·74	...	...	53·44	54·14	54·84
1873*	3·5	43 52·761	52·79	52·78	52·714	52·739	52·836	— 3 5 35·32	34·87	34·74	35·01	35·06	34·92
1874	7·3	43 57·131	57·19	...	...	...	...	— 25 57 13·11	11·52	...	...	...	...
1876*	4·2	43 58·108	58·06	...	...	...	57·915	— 33 17 29·06	28·21	...	...	...	28·46
1877*	4·8	44 21·748	21·68	...	21·759	...	21·706	— 25 24 57·94	58·84	...	58·94	...	58·57
1878	6·7	44 36·913	37·12	...	...	37·128	...	— 77 42 3·56	3·00	...	...	3·48	...
1879	7·8	44 40·613	45·40	...	...	...	...	— 83 55 7·17	6·89	...	...	...	...
1880*	3·7	45 19·926	19·94	19·96	19·907	19·949	19·961	+ 4 48 33·01	32·39	33·14	33·29	33·27	34·45
1881	6·8	45 25·327	25·32	...	...	...	...	— 29 33 8·07	6·25	...	...	...	...
1882*	3·1	45 27·258	27·24	...	...	27·243	...	— 63 5 24·11	24·70	...	...	24·17	...
1883	6·1	46 19·421	19·77	...	...	...	...	— 59 50 54·22	53·58	...	...	...	...
1884*	5·0	46 56·889	...	...	56·819	56·887	56·858	— 19 50 15·92	...	...	15·07	15·30	14·64
1885*	5·6	47 19·615	19·67	...	19·597	...	19·506	— 24 12 16·22	16·52	...	16·47	...	17·78
1886*	5·4	47 22·991	23·05	...	23·044	...	22·980	— 23 38 58·69	58·89	...	59·79	...	58·27
1887*	6·0	48 3·232	3·19	...	3·277	...	3·070	— 24 55 1·27	0·79	...	0·51	...	0·38
1888	7·2	48 27·343	27·55	...	...	...	...	— 59 52 29·71	28·24	...	...	...	...
1889*	5·5	48 51·139	51·26	...	...	...	51·088	— 25 56 27·64	27·56	...	...	...	28·45
1890*	4·5	...	...	...	...	...	...	+ 42 45 34·64	...	...	34·53	...	...
1891	5·6	49 51·507	51·49	51·50	51·377	...	...	— 33 38 36·85	35·88	35·79	35·30	...	...
1892	6·9	49 56·849	57·03	...	...	...	...	— 35 36 21·02	20·61	...	...	...	...
1893*	4·0	50 5·516	5·54	...	5·524	...	...	— 28 53 32·38	31·04	...	32·32	...	...
1894*	4·0	51 22·323	22·32	...	22·289	22·301	22·347	+ 16 1 15·38	15·37	...	15·21	15·77	16·38
1895*	5·7	51 48·339	...	...	48·414	...	...	+ 42 53 11·95	...	...	10·61	...	...
1896*	3·1	52 11·785	11·81	...	11·804	11·776	11·734	— 25 47 48·91	48·63	...	48·86	48·36	47·97
1898	7·0	52 20·952	20·83	...	...	...	...	— 32 41 44·93	45·15	...	...	...	...

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		Cape. 1890	Cape. 1880.	Melbourne. 1880.	Greenwich. 1880.	Cape. 1885.	Radcliffe. 1890.	Cape. 1890.	Cape. 1880.	Melbourne. 1880.	Greenwich. 1880.	Cape. 1885.	Radcliffe. 1890.
		h m s	s	s	s	s	s	° ′ ″	″	″		″	″
1899	3·8	15 52 49·869	50·05	...	...	50·011	...	− 38 4 53·32	51·67	...	...	53·07	...
1900*	4·1	53 2·005	...	...	1·927	1·977	1·991	+ 27 11 47·93	...	...	48·30	47·99	48·89
1901*	2·5	53 49·699	49·63	49·68	49·705	49·700	49·623	− 22 18 29·18	28·79	29·28	29·57	28·48	28·45
1902*	5·6	54 9·188	...	...	9·165	...	9·070	− 16 12 32·19	...	...	31·70	...	31·13
1903	4·8	54 35·219	35·70	...	...	...	...	− 57 27 51·85	50·01	...	...	...	...
1904*	5·6	54 51·286	...	...	...	51·303	51·179	− 8 5 59·06	...	...	...	58·23	57·71
1906	5·1	56 5·157	5·26	5·26	...	...	...	− 38 17 40·57	40·83	40·90	...	...	...
1907	7·5	56 34·461	34·43	...	...	...	...	− 26 24 17·80	16·31	...	...	...	...
1909*	4·8	58 43·007	42·84	...	...	...	...	− 44 52 26·37	26·55	...	...	...	...
1910*	2·5	59 2·424	2·40	2·39	2·413	2·392	2·359	− 19 30 13·71	14·06	13·56	13·88	13·14	13·06
1911*	4·4	15 59 22·100	22·21	...	...	...	...	− 36 30 7·64	6·20	...	...	...	...
1912	8·0	16 0 8·739	8·61	...	...	...	...	− 32 50 57·32	57·07	...	...	...	...
1914*	4·6	0 57·217	57·35	...	57·197	...	57·128	− 20 34 15·59	15·23	...	15·82	...	14·30
1916	7·0	2 31·475	31·49	31·49	...	...	...	− 32 21 21·05	20·65	20·70	...	...	...
1917	7·2	2 44·000	44·11	...	...	...	...	− 39 50 14·80	14·08	...	...	...	...
1918	5·9	2 49·449	49·49	...	...	...	...	− 33 15 11·13	10·39	...	..	...	...
1920	4·7	3 55·688	55·73	55·80	...	55·787	...	− 78 24 60·22	60·64	59·82	...	60·40	...
1921	5·2	4 2·837	2·95	...	...	...	...	− 78 23 20·03	20·35	...	...	...	...
1923*	5·1	4 48·227	48·22	...	...	...	...	− 54 20 41·83	42·00	...	...	...	...
1924	7·5	4 49·227	49·36	...	...	...	...	− 26 51 47·08	45·93	...	...	...	...
1925	7·4	5 0·254	0·32	...	...	...	...	− 49 35 56·58	56·64	...	...	...	...
1926*	4·2	5 18·096	...	18·09	...	...	...	+ 45 13 25·17	...	22·55	...	...	...
1927*	4·0	5 25·736	25·80	...	...	...	...	− 63 24 12·12	12·27	...	...	...	...
1928*	5·5	5 28·129	28·08	...	...	...	...	− 28 7 50·56	49·49	...	...	...	...
1929*	4·7	5 31·557	31·63	...	31·652	31·666	31·516	− 27 38 25·22	24·05	...	24·87	25·11	25·57
1930*	4·5	5 36·097	36·02	...	36·081	36·048	36·023	− 19 10 27·61	27·00	...	27·29	26·90	26·63
1931	7·1	7 14·371	14·41	...	...	...	...	− 31 22 27·96	25·58	...	...	...	...
1932*	6·4	8 13·390	13·41	...	...	...	...	− 25 11 49·19	49·56	...	...	...	...
1933	7·0	8 18·325	...	...	...	...	18·373	− 18 15 9·83	...	...	...	...	8·80
1934*	2·8	8 34·848	34·80	34·84	34·799	34·835	34·824	− 3 24 38·38	38·47	38·08	38·26	37·78	37·22
1936*	5·6	10 33·551	...	...	33·412	...	...	+ 34 8 15·43	...	...	16·72	...	...
1939	7·2	11 28 288	28·42	...	...	...	...	− 27 46 11·42	10·70	...	...	...	...
1940*	4·2	11 36·602	36·53	...	...	36·580	...	− 49 53 4·93	4·73	...	...	4·85	...
1941	5·6	11 38·217	38·37	...	...	...	...	− 42 24 13·18	12·66	...	...	...	...
1943*	3·4	12 30·039	...	29·99	29·955	30·024	29·993	− 4 25 26·02	...	24·99	25·73	25·52	25·21
1944	8·0	12 43·121	43·26	...	...	...	...	− 52 12 10·05	8·70	...	...	...	...
1947*	3·0	14 30·074	30·12	...	30·144	30·071	29·960	− 25 19 41·33	41·01	...	41·70	40·89	40·39
1948	7·3	15 54·778	55·08	...	...	...	...	− 74 57 12·61	12·72	...	...	...	...
1949	5·5	.....	...	...	...	...	...	+ 39 58 19·50	...	...	18·48	...	...
1950*	3·9	.....	...	...	...	...	...	+ 46 34 31·81	...	30·26	31·99	34·28	...
1951*	5·3	16 34·223	34·39	...	...	...	...	− 38 56 5·60	5·26	...	...	...	...
1952*	3·9	16 35·815	35·75	...	...	35·882	...	− 78 38 53·34	55·31	...	...	53·91	...
1953*	5·0	16 38·437	38·34	...	...	...	...	− 69 50 6·00	5·41	...	...	...	...
1954*	3·8	17 4·020	4·02	3·99	4·021	4·056	4·079	+ 19 24 42·60	42·47	43·49	42·63	42·66	43·65
1956*	5·4	17 45·366	45·20	...	45·303	...	...	− 29 26 46·61	46·83	...	46·63	...	...
1957*	4·5	17 48·662	...	...	48·643	...	...	+ 31 8 50·13	...	...	50·53	...	...
1958	6·4	17 58·328	63·18	...	...	...	...	− 87 22 8·32	4·73	...	...	...	...
1961	7·8	18 53·647	53·64	...	...	...	...	− 29 40 3·74	3·99	...	...	...	...
1964*	6·0	20 2·110	2·26	2·31	...	2·48	...	− 86 9 19·61	19·72	19·73	...	19·61	...
1966*	5·1	21 2·942	3·05	...	...	...	...	− 61 23 19·77	19·55	...	...	...	...

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		Cape. 1890.	Cape. 1880.	Melbourne. 1880.	Greenwich. 1880.	Cape. 1885.	Radcliffe. 1890.	Cape. 1890.	Cape. 1880.	Melbourne. 1880.	Greenwich. 1880.	Cape. 1885.	Radcliffe. 1890.
		h m s	s	s	s	s	s	° ′ ″	″	″	″	″	″
1967*	5·4	16 21 44·088	44·04	...	...	...	...	− 45 59 53·66	52·94	...	...	...	...
1968*	1·1	22 39·743	39·65	39·71	39·708	39·716	39·625	− 26 11 13·86	13·73	13·43	14·14	13·83	13·37
1970	5·5	24 3·107	3·20	...	...	...	...	− 41 34 37·91	39·46	...	...	...	...
1971*	4·5	24 11·642	11·61	...	11·674	11·616	11·449	− 34 27 50·38	50·12	...	51·16	50·33	51·55
1972*	Var.	.....	...	...	...	...	...	+ 42 7 26·07	...	...	27·34	...	...
1974*	4·0	25 21·922	21·84	...	21·891	21·900	21·904	+ 2 13 30·15	30·87	...	30·38	31·00	31·42
1975*	2·8	25 29·473	...	...	29·466	29·433	29·474	+ 21 43 47·08	...	...	46·92	46·73	47·35
1976	7·3	25 52·738	52·76	...	...	...	...	− 33 17 45·21	44·18	...	...	...	...
1977*	5·2	26 15·976	16·08	...	...	...	...	− 43 48 40·45	40·67	...	...	...	...
1978*	6·1	.....	...	...	...	...	...	+ 49 12 3·48	...	...	2·49	...	...
1979*	4·2	27 22·811	23·10	22·95	...	22·989	...	− 77 17 6·93	7·65	7·08	...	7·10	...
1980*	2·9	29 1·998	2·06	...	2·054	2·018	1·975	− 27 59 13·79	12·96	...	13·44	13·65	12·11
1981*	6·9	29 11·945	...	...	11·928	..	...	+ 30 43 48·00	...	...	48·59	...	...
1982*	4·3	30 33·352	...	...	33·385	33·313	33·481	+ 42 39 51·18	...	...	51·02	51·32	52·17
1983*	2·8	31 6·057	6·04	6·09	6·046	6·033	6·033	− 10 20 37·46	36·72	36·93	37·66	37·23	36·62
1984	6·0	32 8·074	...	...	8·016	...	7·991	− 6 18 57·67	...	...	57·70	...	57·29
1985	6·6	32 14·171	14·11	...	...	...	...	− 67 12 59·35	58·72	...	...	...	...
1986	7·0	32 52·840	...	...	...	...	52·951	− 1 0 39·20	...	...	...	...	39·04
1987	6·0	.....	...	...	...	...	...	+ 46 50 9·08	...	...	10·58	...	...
1988	8·5	33 20·994	20·92	...	...	...	...	− 25 50 34·83	34·37	...	...	...	...
1989	7·2	33 52·140	52·08	...	...	...	...	− 45 9 3·68	1·59	...	...	...	...
1990	6·3	34 56·068	56·18	...	...	...	56·087	− 24 15 13·98	13·50	...	...	...	13·44
1991	6·9	35 7·388	7·49	...	...	...	...	− 36 51 50·88	48·46	...	...	...	...
1992*	5·2	35 12·673	12·78	12·67	12·612	12·599	12·566	− 17 31 42·93	43·81	42·10	43·63	42·48	42·27
1994	6·5	35 31·160	...	...	...	...	31·231	− 0 47 11·45	...	...	...	...	10·65
1995	5·3	35 35·947	36·10	...	...	...	...	− 66 54 9·25	8·37	...	...	...	...
1996	7·1	36 3·862	4·27	...	...	...	...	− 61 27 19·11	18·62	...	...	...	...
1998*	1·9	37 1·224	1·29	1·28	...	1·214	...	− 68 49 27·58	27·91	27·56	...	27·50	...
1999	6·9	37 3·898	3·99	...	...	...	...	− 26 35 51·12	50·10	...	...	...	...
2000*	3·1	37 8·287	8·34	8·33	8·349	8·312	8·388	+ 31 48 7·03	..	8·96	8·64	9·60	9·31
2001*	3·7	39 7·520	...	...	7·461	7·506	7·464	+ 39 7 54·27	...	...	54·51	55·15	54·50
2002	7·5	39 41·761	41·85	...	...	...	...	− 41 36 29·81	28·69	...	...	...	...
2003	5·8	39 48·188	...	...	48·230	...	...	+ 34 14 30·68	...	...	30·36	...	...
2004	8·0	39 50·266	50·28	...	...	...	...	− 31 15 6·25	6·26	...	...	...	...
2006*	3·6	40 17·219	17·38	...	...	17·257	...	− 58 50 37·70	37·96	...	...	37·55	...
2008	6·7	41 22·565	22·55	...	...	...	...	− 31 0 21·85	21·54	...	...	...	...
2009	7·1	41 32·580	32·58	...	...	...	32·461	− 24 19 44·75	44·65	...	...	...	44·41
2011	7·0	42 7·511	7·47	...	...	...	...	− 33 49 13·24	12·58	...	...	...	...
2012*	2·3	43 2·249	2·27	2·24	2·323	2·318	2·169	− 34 5 34·11	33·68	34·17	35·18	33·25	33·52
2013*	6·7	43 2·642	2·59	...	...	...	2·470	− 24 26 47·72	48·14	...	...	...	48·53
2015	5·5	43 53·477	53·45	...	...	...	...	− 41 2 25·71	25·76	...	...	...	...
2017*	3·3	44 25·122	25·21	...	...	25·165	...	− 37 51 28·09	27·72	...	...	27·68	...
2018	9·0	44 31·597	31·67	...	...	...	...	− 56 11 16·90	16·47	...	...	...	...
2019	7·4	44 38·742	38·67	...	38·767	...	...	− 24 38 41·04	40·88	...	42·12	...	...
2020*	3·7	44 53·033	53·15	...	...	53·058	...	− 37 49 45·10	44·87	...	...	44·19	...
2021	7·0	45 31·100	31·08	...	...	...	...	− 25 24 47·58	47·10	...	...	...	...
2022	6·8	45 47·259	47·53	...	...	47·567	...	− 76 2 17·19	16·45	...	...	16·02	...
2023	5·0	46 14·122	14·07	...	...	14·086	...	− 42 10 40·84	41·30	...	...	41·24	...
2024*	3·5	46 50·558	50·36	...	...	50·565	...	− 42 10 19·11	19·29	...	...	19·04	...
2025*	6·4	47 4·347	...	...	...	4·409	...	+ 15 9 33·20	...	...	...	33·22	...

No.	Mag.	Mean R.A. 1890·0.						Mean Dec. 1890·0.					
		Cape. 1890.	Cape. 1880.	Melbourne. 1880.	Greenwich. 1880.	Cape. 1885.	Radcliffe. 1890.	Cape. 1890.	Cape. 1880.	Melbourne. 1880.	Greenwich. 1880.	Cape. 1885.	Radcliffe. 1890.
		h m s	s	s	s	s	s	° ′ ″	″	″	″	″	″
2028	7·3	16 47 44·383	44·35	...	...	...	...	− 30 47 51·43	50·80	...	...	...	...
2029	6·7	48 32·887	...	...	...	...	32·857	− 11 36 43·00	...	...	...	...	41·67
2030	7·0	48 46·705	46·68	...	...	...	...	− 33 19 43·94	43·82	...	...	...	...
2031*	5·4	48 47·804	...	...	47·764	...	...	+ 31 53 2·10	...	...	2·91	...	...
2032*	4·4	48 48·162	...	...	48·149	...	...	+ 10 20 48·33	...	...	48·34	...	...
2033*	3·0	49 31·057	31·08	31·04	...	31·010	...	− 55 48 55·01	55·77	54·98	...	54·71	...
2034	6·6	49 40·879	...	...	40·838	...	40·787	− 16 37 49·04	...	...	49·78	...	49·01
2035	7·5	49 41·642	42·37	...	...	...	...	− 82 13 57·56	57·99	...	...	...	...
2036*	4·2	50 48·968	48·95	...	...	49·019	...	− 52 59 24·81	24·89	...	...	24·86	...
2038	6·6	51 25·588	25·58	...	...	...	...	− 37 26 53·54	52·82	...	...	...	...
2039	8·0	51 29·814	29·73	...	...	...	...	− 25 53 14·64	14·88	...	...	...	...
2041	6·6	52 15·412	15·45	...	...	...	...	− 44 49 10·17	8·91	...	...	...	...
2042*	3·4	52 27·670	27·65	(27·57)	27·641	27·672	27·696	+ 9 32 47·35	47·95	(49·49)	46·77	47·91	48·67
2043*	6·3	53 0·069	...	...	0·048	...	...	+ 25 31 22·38	...	...	22·41	. .	...
2045	7·0	54 32·302	32·23	...	...	...	...	− 33 12 11·89	12·02	...	...	...	...
2046*	5·2	54 45·791	45·75	...	45·733	...	45·664	− 31 58 45·24	45·34	...	45·98	...	44·11
2048*	4·0	56 4·823	4·87	...	4·829	4·869	4·876	+ 31 5 19·02	...	...	19·42	20·03	20·00
2049*	6·7	57 31·765	31·80	...	...	...	...	− 28 25 6·44	7·51	...	...	...	...
2050*	5·3	57 32·739	...	...	32·681	32·726	...	+ 33 43 39·58	...	...	40·76	40·34	...
2051	8·3	57 43·320	43·47	...	...	...	...	− 72 42 13·84	13·84	...	...	...	...
2053	7·5	57 48·749	48·47	...	...	...	...	− 23 14 3·83	3·32	...	...	...	...
2055	8·3	58 6·646	6·55	...	...	...	...	− 78 15 28·12	29·34	...	...	...	...
2057	7·5	16 59 19·409	19·27	...	...	...	...	− 35 55 37·67	37·60	...	...	...	...
2058*	4·9	17 0 16·608	...	...	...	16·656	16·621	+ 12 53 32·18	...	...	...	32·91	33·27
2059	7·3	0 21·260	21·32	...	...	...	...	− 41 27 56·97	55·52	...	...	...	...
2060	7·6	0 58·874	59·62	59·15	...	59·86	...	− 87 16 57·77	57·50	57·05	...	57·04	...
2061	6·2	.....	...	...	...	...	...	+ 43 57 43·27	...	...	42·92	...	...
2063	4·9	2 43·958	44·04	44·07	...	...	...	− 44 24 52·97	52·47	51·97	...	...	...
2064	8·0	3 36·215	36·44	...	...	...	...	− 78 56 22·51	23·34	...	...	...	...
2065*	2·6	4 4·129	4·12	4·10	4·125	4·134	4·093	− 15 35 17·14	16·95	16·51	17·40	16·82	16·14
2066	5·5	4 8·000	...	...	8·058	...	...	+ 36 4 42·78	...	...	42·14	...	...
2067*	6·3	.....	...	...	...	...	...	+ 40 39 36·35	...	...	36·24	...	...
2068	6·8	4 14·924	14·95	15·15	...	...	...	− 82 39 50·31	51·00	49·87	...	...	...
2069*	3·4	4 16·407	16·39	...	...	16·560	...	− 43 5 35·66	35·58	...	...	35·52	...
2071	6·3	5 49·509	49·46	...	...	...	...	− 32 18 15·47	14·49	...	...	...	...
2073*	7·0	7 23·170	23·14	...	23·198	...	...	− 26 51 7·11	6·84	...	7·92	...	...
2075	5·6	8 5·949	6·00	...	...	...	...	− 33 25 12·54	12·94	...	...	...	...
2076*	8·0	8 23·480	23·49	...	23·595	...	...	− 26 24 13·05	13·21	...	12·10	...	...
2077*	5·8	8 34·894	35·03	...	34·920	...	34·880	− 26 26 26·39	26·34	...	27·28	...	26·53
2078*	5·8	8 35·020	35·19	...	35·129	...	34·964	− 26 26 21·58	22·05	...	22·18	...	22·07
2081	6·5	9 28·396	28·63	...	...	...	...	− 59 34 23·05	23·20	...	...	...	...
2082*	Var.	9 37·880	37·87	37·87	37·859	37·902	37·866	+ 14 30 57·93	57·50	58·86	57·90	58·43	59·21
2083*	5·6	9 49·852	49·97	...	...	...	...	− 70 0 21·05	21·23	...	...	...	...
2084*	5·5	9 54·261	54·27	...	54·294	...	...	− 32 32 15·97	16·20	...	14·73	...	...
2087*	6·9	10 19·173	19·14	...	...	...	...	− 30 2 29·75	29·44	...	...	...	...
2089*	3·3	10 30·791	...	...	...	30·776	...	+ 24 58 9·14	...	...	...	9·60	...
2090*	6·0	10 53·899	53·67	53·95	...	54·28	...	− 80 45 16·29	16·99	15·80	...	16·28	...
2091*	3·4	11 12·960	...	...	12·910	12·819	12·856	+ 36 55 60·32	...	...	59·59	60·16	60·80
2094	8·7	12 7·879	...	...	7·766	...	...	− 8 11 44·88	...	...	45·39	...	...
2095*	5·5	13 26·681	...	...	26·637	...	...	+ 10 59 2·70	...	...	2·40	...	...

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		Cape. 1890.	Cape. 1880.	Melbourne. 1880.	Greenwich. 1880.	Cape. 1885.	Radcliffe. 1890.	Cape. 1890.	Cape. 1880.	Melbourne. 1880.	Greenwich. 1880.	Cape. 1885.	Radcliffe. 1890.
		h m s	s	s	s	s	s	° ′ ″	″	″		″	″
2096	7·3	17 13 28·529	28·50	...	...	...	...	− 29 14 59·33	59·20	...	...	...	...
2097*	4·9	13 52·491	...	...	52·557	...	...	+ 37 24 25·32	...	...	24·78	...	...
2098	5·9	.....	...	...	...	...	...	+ 49 48 33·93	...	...	33·40	...	...
2101*	6·6	14 56·718	56·62	...	...	56·690	56·566	− 24 47 38·64	38·24	...	...	38·64	39·11
2102*	3·4	15 15·170	15·13	15·16	15·212	15·209	15·151	− 24 53 20·50	19·84	19·80	20·54	19·95	19·48
2103	8·3	15 16·195	16·12	...	...	...	...	− 31 11 13·77	13·27	...	...	...	...
2104*	3·4	16 8·107	8·23	...	...	8·089	...	− 56 16 22·70	22·26	...	...	22·29	...
2105*	2·7	16 9·308	9·43	...	...	9·326	...	− 55 25 29·09	29·07	...	...	28·66	...
2106	5·0	16 14·687	14·57	...	...	...	...	− 44 3 21·30	20·13	...	...	...	...
2107	8·3	16 53·223	53·23	...	...	...	...	− 29 42 52·84	52·89	...	...	...	...
2108	7·3	17 21·439	21·51	...	...	...	21·475	− 23 44 21·39	21·81	...	...	...	21·33
2110	7·5	18 29·155	29·13	...	...	...	...	− 29 34 7·93	8·21	...	...	...	...
2112*	4·5	19 39·084	39·17	...	39·025	39·062	39·001	− 24 4 24·14	24·74	...	24·19	24·33	23·01
2113*	4·4	19 53·141	...	...	53·290	...	53·267	+ 37 14 50·78	...	...	50·66	...	51·47
2114*	4·4	20 19·767	19·73	...	19·781	...	19·682	− 29 45 60·12	59·24	...	60·41	...	57·78
2115	6·7	20 36·693	36·83	...	...	...	...	− 29 37 41·10	41·69	...	...	...	...
2116	6·8	21 2·748	2·81	...	...	...	...	− 43 52 49·95	49·56	...	...	...	...
2117*	4·4	21 3·395	3·46	3·38	3·361	3·426	3·392	+ 4 14 10·98	10·20	11·34	11·11	11·71	12·15
2118*	3·8	21 10·141	10·08	...	...	10·392	...	− 60 35 25·99	27·17	...	...	26·65	...
2119	6·6	21 29·502	29·46	29·51	...	...	...	− 36 41 7·66	7·53	6·78	...	...	...
2120	7·3	21 51·470	51·46	...	...	...	...	− 25 25 1·80	2·36	...	...	...	...
2122*	2·8	23 17·022	17·09	...	...	17·067	...	− 37 12 25·54	25·05	...	...	25·45	...
2123*	2·9	23 20·275	20·24	...	...	20·291	...	− 49 47 16·04	16·37	...	...	15·92	...
2124*	5·8	.....	...	...	...	...	...	+ 48 21 10·51	...	...	8·74	...	...
2125*	4·9	24 42·253	42·11	42·17	42·189	42·188	42·121	− 23 52 36·42	37·20	35·30	36·32	36·47	35·08
2126	6·5	25 21·979	22·10	...	...	...	...	− 41 5 27·75	27·55	...	...	...	...
2127	7·0	26 2·550	2·51	...	...	...	...	− 29 34 10·35	10·95	...	...	...	...
2128*	1·8	26 8·307	8·28	8·24	...	8·323	...	− 37 1 21·76	22·03	21·21	...	21·21	...
2129	6·7	26 26·039	25·98	...	...	...	...	− 53 16 28·83	29·46	...	...	...	...
2130*	7·0	26 35·040	...	...	...	...	34·966	− 17 24 57·50	...	...	...	...	56·89
2131	6·4	26 52·346	53·12	52·79	...	53·17	...	− 85 10 5·34	3·12	3·92	...	4·18	...
2132	7·8	27 30·315	30·29	...	...	...	...	− 31 47 41·53	41·54	...	...	...	...
2133	6·5	28 36·032	...	...	36·033	...	...	+ 19 20 11·95	...	...	13·50	...	...
2134*	5·2	29 3·524	3·49	...	...	...	...	− 54 25 31·46	32·57	...	...	...	...
2135*	2·0	29 24·834	24·74	...	...	24·845	...	− 42 55 36·74	35·74	...	...	36·72	...
2136*	2·2	29 49·652	49·65	49·65	49·661	49·659	49·700	+ 12 38 25·95	27·00	25·96	25·60	25·92	26·87
2137	6·7	29 54·659	54·65	...	...	...	...	− 37 59 46·67	46·32	...	...	...	...
2138*	3·7	31 17·237	17·26	17·19	...	17·225	17·233	− 15 19 43·07	45·12	41·75	...	42·73	43·09
2139	7·3	31 33·646	34·00	...	...	34·08	...	− 83 11 29·70	29·66	...	...	29·84	...
2141	6·1	32 3·359	...	...	...	...	3·326	− 10 51 34·64	...	...	...	...	34·85
2142	6·9	33 28·035	28·04	...	...	...	...	− 50 27 3·36	3·30	...	...	...	...
2143	6·9	34 9·654	9·78	...	...	...	...	− 56 57 55·31	55·41	...	...	...	...
2145*	2·6	34 52·639	52·58	...	...	52·710	...	− 38 58 20·60	20·03	...	...	19·71	...
2146*	3·5	34 56·163	56·26	...	...	56·120	...	− 64 40 11·10	10·95	...	...	10·67	...
2148*	5·4	35 22·880	22·89	...	...	...	...	− 36 53 20·74	22·22	...	...	...	...
2149*	5·3	35 24·597	24·55	...	...	...	...	− 51 46 27·37	27·67	...	...	...	...
2151*	3·9	.....	...	...	...	...	21·581	+ 46 3 54·69	...	...	54·00	55·57	55·35
2153	6·5	36 48·639	48·64	...	...	...	...	− 42 40 41·28	41·53	...	...	...	...
2154*	5·0	36 50·308	50·22	...	50·286	...	50·223	− 21 37 44·38	43·78	...	44·23	...	43·70
2156*	2·9	38 2·291	2·29	2·27	2·270	2·284	2·304	+ 4 36 49·30	50·54	49·60	49·11	49·74	50·06

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		Cape. 1890.	Cape. 1880.	Melbourne. 1880.	Greenwich. 1880.	Cape. 1885.	Radcliffe. 1890.	Cape. 1890.	Cape. 1880.	Melbourne. 1880.	Greenwich. 1880.	Cape. 1885.	Radcliffe. 1890.
		h m s	s	s	s	s	s	° ′ ″	″	″	″	″	″
2159	6·6	17 39 42·325	42·58	...	...	...	...	− 61 40 24·63	24·83	...	...	...	...
2160*	3·1	39 53·400	53·41	...	...	53·498	...	− 40 4 60·57	59·94	...	...	60·64	...
2161*	Var.	40 38·139	38·13	...	38·202	...	38·052	− 27 47 17·30	17·06	...	18·85	...	16·46
2163	6·5	41 32·057	...	...	32·037	...	...	+ 31 32 53·97	...	...	53·26	...	...
2164*	6·7	41 35·045	35·07	...	...	...	...	− 26 56 5·59	5·28	...	..	...	...
2166*	5·0	42 1·675	1·80	...	...	...	...	− 31 39 51·99	53·34	...	...	...	...
2167*	3·5	42 9·170	9·13	9·12	9·156	9·174	9·203	+ 27 47 7·46	7·68	7·54	7·37	7·87	8·50
2168*	3·2	42 22·210	22·26	22·19	...	22·106	...	− 37 0 25·95	25·47	25·77	...	25·74	...
2169*	3·8	.....	...	...	...	..	...	+ 2 44 55·90	...	56·79	56·43	57·67	...
2170	4·9	42 29·487	29·45	...	...	...	...	− 40 3 13·63	13·91	...	...	...	...
2171	7·0	43 0·229	0·35	...	...	...	...	− 42 17 36·27	34·44	...	...	...	...
2172	6·5	43 48·429	48·48	...	...	...	...	− 40 44 17·13	16·52	...	...	...	...
2174*	5·4	44 21·501	...	...	21·526	...	...	+ 25 39 35·03	...	...	35·61	...	...
2176	6·8	45 0·949	0·81	...	...	...	...	− 41 57 40·68	37·15	...	...	...	...
2177	7·0	45 34·200	34·20	...	...	...	...	− 35 35 38·45	37·70	...	...	...	...
2178	8·3	45 48·285	...	...	...	...	48·222	− 6 13 47·82	...	...	...	...	48·05
2179	6·6	46 18·258	...	...	...	18·273	18·238	− 1 12 28·40	...	...	...	28·28	27·70
2180	Var.	46 44·790	...	...	..	...	44·856	− 6 6 57·54	...	...	...	...	56·56
2183*	6·2	48 7·790	7·73	...	...	...	7·718	− 24 51 50·88	51·98	...	...	...	52·53
2185	4·9	48 45·832	45·88	...	...	...	...	− 44 19 20·57	21·23	...	...	...	...
2186	7·0	49 4·380	4·45	...	...	...	...	− 32 27 19·83	18·88	...	...	...	...
2191	8·0	49 57·598	57·59	...	...	...	...	− 45 26 24·10	23·93	...	...	...	...
2192*	5·2	50 7·156	7·54	7·30	...	8·12	...	− 87 39 44·36	44·14	43·73	...	44·00	...
2193*	5·6	50 58·923	58·90	58·86	58·931	...	58·941	+ 26 4 4·59	...	5·05	4·16	...	5·13
2194	6·3	51 27·260	27·33	...	...	...	...	− 36 50 45·37	45·20	...	...	...	...
2196	7·3	52 16·709	16·71	...	...	...	...	− 66 31 54·85	54·73	...	...	...	...
2197*	4·0	.....	...	...	...	...	...	+ 37 15 55·02	...	...	55·13	57·33	55·82
2199*	3·5	52 58·220	58·26	58·26	58·137	58·201	58·187	− 9 45 34·05	33·81	32·68	34·94	33·67	32·76
2200*	4·6	53 4·496	4·51	...	4·605	...	4·492	− 23 48 18·31	19·23	...	19·81	...	18·82
2201*	3·9	53 29·402	...	...	29·360	29·394	29·434	+ 29 15 35·83	...	...	36·86	36·37	36·37
2203*	4·0	55 8·072	...	8·11	...	8·118	...	+ 2 56 15·03	...	15·15	...	14·72	...
2204*	5·6	55 52·366	52·27	...	...	...	...	− 75 53 31·17	30·19	...	...	...	...
2205*	5·7	57 7·757	7·64	...	7·695	...	7·604	− 24 21 43·07	43·45	...	44·39	...	43·58
2206	8·3	57 12·330	12·25	...	12·228	...	...	− 24 18 51·03	50·68	...	51·60	...	...
2207	6·6	57 28·389	28·02	...	...	28·75	...	− 84 25 16·10	17·17	...	...	16·06	...
2208	7·7	57 33·597	...	...	...	...	33·487	− 22 30 12·11	...	...	...	..	11·16
2209*	4·4	57 59·322	59·44	...	...	...	...	− 63 40 17·19	18·07	...	...	...	...
2210	Var.	57 59·597	59·59	...	59·622	...	59·436	− 29 35 2·95	2·93	...	3·18	...	2·06
2211*	3·8	58 4·090	4·03	...	...	4·079	...	− 50 5 50·98	50·98	...	...	50·65	...
2212	6·0	58 35·865	36·10	...	...	...	...	− 73 40 47·01	43·00	...	...	...	...
2213*	3·0	58 44·481	44·41	44·35	...	44·419	...	− 30 25 28·31	27·74	26·94	...	27·94	...
2214	8·0	59 48·315	48·41	...	...	...	...	− 28 22 20·29	19·98	...	...	...	...
2215*	*	17 59 53·817	...	...	53·765	...	...	+ 2 31 31·85	...	...	32·04	...	...
2216	7·4	18 1 52·153	52·13	...	...	...	...	− 31 10 26·22	26·14	...	...	...	...
2217	6·7	1 54·890	55·02	...	...	...	...	− 36 41 14·96	14·53	...	...	...	...
2219*	3·9	2 8·061	8·05	8·04	8·042	8·052	8·085	+ 9 32 55·22	55·86	55·50	54·70	55·77	56·07
2220	7·0	2 47·388	47·40	...	...	...	...	− 32 43 55·77	54·59	...	...	...	...
2221*	4·5	3 3·851	3·68	...	...	3·798	..	− 45 58 20·79	19·61	...	...	20·46	...
2222*	4·0	3 15·061	...	...	15·044	15·121	...	+ 28 44 51·61	...	...	51·94	51·42	...
2223*	6·0	3 23·405	...	...	23·541	...	...	+ 26 5 7·96	...	...	6·58	...	...

No.	Mag.	Mean R.A. 1890·0.						Mean Dec. 1890·0.					
		Cape. 1890	Cape. 1880.	Melbourne. 1880.	Greenwich. 1880.	Cape. 1885.	Radcliffe. 1890.	Cape. 1890.	Cape. 1880.	Melbourne. 1880.	Greenwich. 1880.	Cape. 1885.	Radcliffe. 1890.
		h m s	s	s	s	s	s	° ′ ″	″	″	″	″	″
2224*	6·0	18 3 23·428	...	...	23·391	...	...	+ 26 4 53·17	...	...	51·56	...	...
2227	7·3	4 58·740	58·67	...	...	...	...	— 28 55 26·62	26·33	...	...	...	...
2228	8·1	6 24·394	24·19	...	...	...	...	— 86 16 4·52	2·53	...	...	...	...
2229*	4·1	7 11·022	11·02	11·05	11·050	11·058	11·034	— 21 5 12·60	12·39	12·12	13·54	12·62	12·33
2230	7·1	7 30·925	30·97	...	...	...	...	— 35 6 36·51	35·87	...	...	...	...
2231*	5·5	7 51·382	51·45	...	...	...	...	— 56 3 23·04	23·16	...	...	...	...
2234*	3·0	10 10·946	11·01	...	...	11·021	...	— 36 47 37·58	37·15	...	...	37·71	...
2235	7·3	10 19·045	19·13	...	...	...	...	— 52 0 15·36	16·31	...	...	...	...
2237	6·6	10 25·620	25·54	...	25·653	...	...	— 28 41 20·11	19·22	...	15·97	...	...
2238*	5·3	12 13·424	...	...	13·465	...	...	+ 42 7 19·66	...	...	19·23	...	...
2239	6·9	13 4·508	4·65	...	...	...	...	— 60 47 48·57	48·02	...	...	...	...
2240*	4·2	13 5·268	5·23	...	...	...	...	— 61 32 32·69	32·69	...	...	...	...
2241*	5·8	13 48·745	...	...	48·673	...	48·635	— 15 52 33·00	...	. .	33·02	...	32·85
2242*	2·8	13 57·067	57·04	57·07	57·101	57·062	...	— 29 52 26·54	26·10	...	29·37	26·69	...
2243	6·5	15 2·485	2·49	...	2·505	2·441	...	— 28 28 45·64	45·79	...	45·63	45·75	...
2244	5·6	15 25·768	25·84	...	...	...	...	— 36 43 11·33	11·46	...	...	...	...
2245*	3·4	15 37·082	37·01	37·06	37·028	37·061	37·086	— 2 55 36·47	36·76	36·10	36·77	36·06	35·66
2246	8·5	16 46·354	46·28	...	...	...	...	— 71 33 42·30	39·78	...	...	...	...
2247*	1·9	16 52·237	52·24	...	52·226	52·188	...	— 34 26 8·50	8·85	...	10·20	8·33	...
2248	6·8	16 57·468	...	...	...	...	57·299	— 10 16 18·98	...	...	...	...	18·57
2250	5·5	17 57·415	...	...	57·360	...	...	+ 17 46 16·94	...	...	17·74	...	...
2252	6·7	18 44·777	...	...	...	...	44·769	— 7 7 59·55	...	...	...	...	59·06
2253*	5·8	18 47·690	47·64	...	...	...	...	— 74 1 53·81	54·04	...	...	...	...
2254*	3·7	18 48·979	48·95	...	...	48·951	...	— 46 1 40·44	40·59	...	...	40·56	...
2255*	3·9	19 0·620	...	...	0·598	0·599	...	+ 21 43 13·39	...	...	12·10	12·11	...
2256*	5·8	20 27·947	28·03	...	...	...	...	— 57 35 22·77	21·77	...	...	...	...
2257	8·3	20 31·835	32·39	...	...	...	...	— 85 40 8·53	8·84	...	...	...	...
2258*	4·9	20 36·280	...	...	36·333	...	...	+ 39 26 51·17	...	...	51·00	...	...
2259*	3·1	21 10·900	10·86	10·85	10·892	10·904	10·820	— 25 28 53·92	54·31	53·49	54·66	54·12	53·66
2262*	5·5	23 51·820	51·86	51·81	51·930	...	...	— 33 3 40·09	40·20	39·32	39·74	...	...
2263	5·7	25 2·087	...	...	2·058	...	...	+ 23 47 35·96	...	...	36·18	...	...
2264*	4·4	25 38·828	38·74	...	...	...	...	— 42 23 26·80	27·16	...	...	...	...
2266*	5·9	27 10·264	10·28	...	10·267	...	10·132	— 24 6 48·57	48·64	...	49·18	...	48·54
2267*	4·0	29 13·254	...	...	13·206	13·202	13·194	— 8 19 13·23	...	...	13·87	13·27	12·25
2270*	4·0	30 10·697	10·66	...	...	10·686	...	— 71 31 14·72	14·03	...	...	14·81	...
2273*	5·8	31 49·242	49·12	49·28	...	49·232	49·213	— 23 35 52·06	52·36	52·49	...	52·42	52·25
2274	6·4	32 12·882	...	...	12·915	...	...	+ 16 6 15·88	...	...	14·92	...	...
2275	5·3	32 35·197	...	...	35·245	...	...	+ 33 22 36·29	...	...	36·75	...	...
2278	6·9	33 10·810	10·89	...	...	...	...	— 48 11 26·31	24·37	...	...	...	...
2279*	0·2	33 12·711	12·78	12·79	12·808	12·857	12·812	+ 38 40 53·66	53·04	52·67	53·60	53·97	54·21
2280	7·6	33 46·833	47·43	47·26	...	...	...	— 84 4 1·26	2·01	1·30	...	...	...
2284*	6·2	36 11·326	11·23	...	...	...	...	— 73 6 34·73	33·98	...	...	...	...
2285*	5·2	36 14·124	14·09	...	...	...	...	— 38 25 41·78	41·22	...	...	...	...
2286*	4·8	36 14·991	14·99	...	15·020	...	15·026	— 9 9 25·37	25·03	...	25·85	...	25·10
2288	4·9	36 57·260	57·26	57·22	...	...	...	— 35 44 57·05	57·04	55·88	...	...	...
2290*	5·7	38 3·752	3·80	...	3·867	...	3·713	— 25 7 13·81	14·19	...	15·49	...	13·33
2292	6·7	38 44·665	...	...	...	...	44·545	— 21 6 45·08	...	...	...	...	44·38
2293*	3·3	38 47·008	46·96	46·95	47·039	46·993	...	— 27 6 11·33	10·50	10·99	11·97	11·37	...
2299*	6·0	40 47·793	...	...	47·742	...	47·588	— 1 4 37·55	...	...	36·92	...	36·24
2300*	5·7	40 54·093	54·09	...	...	...	...	— 43 47 55·10	55·61	...	...	...	...

No.	Mag.	Mean R.A. 1890·0.						Mean Dec. 1890·0.					
		Cape. 1890.	Cape. 1880.	Melbourne. 1880.	Greenwich. 1880.	Cape. 1885.	Radcliffe. 1890.	Cape. 1890.	Cape. 1880.	Melbourne. 1880.	Greenwich. 1880.	Cape. 1885.	Radcliffe. 1890.
		h m s	s	s	s	s	s	° ′ ″	″	″	″	″	″
2301*	4·3	18 40 55·649	...	...	...	55·603	...	+ 20 26 29·10	...	...	...	29·40	...
2302*	4·4	42 1·368	1·47	...	...	1·344	...	− 62 18 43·99	44·40	...	...	43·95	...
2303*	4·5	42 9·758	...	...	9·748	...	...	+ 18 3 34·08	...	...	34·24	...	...
2304*	5·5	42 21·414	20·90	21·07	...	23·48	...	− 89 16 0·85	0·73	0·67	...	0·51	...
2305*	6·1	44 13·668	...	13·65	...	13·724	13·888	− 22 17 14·59	...	13·60	...	13·67	13·96
2306	5·4	44 16·433	16·38	...	...	...	...	− 46 43 24·36	24·85	...	...	...	...
2309*	Var.	45 36·248	36·13	...	...	...	...	− 67 22 11·77	11·36	...	...	...	...
2310*	Var.	46 1·096	1·04	1·07	1·092	1·109	1·138	+ 33 14 6·71	7·32	6·50	7·29	7·89	8·24
2311	7·8	46 13·800	13·62	...	...	13·759	...	− 27 53 20·08	21·17	...	...	20·05	...
2312	7·1	46 32·810	32·74	...	...	...	...	− 32 7 28·41	27·61	...	...	...	...
2313*	5·0	47 31·674	31·55	...	...	31·650	31·599	− 22 52 45·74	46·53	...	...	45·81	45·60
2315	5·4	48 26·582	26·60	...	...	...	...	− 42 50 54·98	54·79	...	...	...	...
2316*	2·3	48 26·636	26·50	26·55	26·647	26·579	26·555	− 26 25 57·62	57·68	56·86	57·80	56·79	57·70
2317*	5·2	48 28·133	28·18	...	...	...	28·065	− 22 48 28·59	28·47	...	...	...	28·75
2319	6·5	48 53·014	53·07	...	...	...	...	− 66 47 47·48	46·82	...	...	...	...
2321*	4·9	49 39·701	39·67	...	...	...	...	− 53 4 53·49	53·36	...	...	...	...
2322*	4·0	50 45·062	45·03	45·06	44·992	45·045	...	+ 4 3 39·21	39·66	39·31	38·58	39·64	...
2323*	3·5	51 10·024	10·05	...	10·033	10·011	9·945	− 21 15 1·75	1·00	...	1·63	1·73	1·94
2324*	4·9	51 18·152	18·15	...	...	...	...	− 37 14 59·52	59·57	...	...	...	...
2325	6·8	51 35·853	35·79	...	...	...	35·731	− 25 1 20·46	20·98	...	...	...	20·22
2326	5·9	.....	...	...	...	...	...	+ 48 43 20·61	...	...	19·36	...	...
2327	6·4	53 39·720	39·67	...	...	...	...	− 25 5 39·43	40·59	...	...	...	...
2328*	4·1	54 37·780	37·75	37·75	37·756	37·774	37·801	+ 14 55 9·97	10·25	9·66	9·51	9·29	10·69
2329*	3·3	54 49·690	...	...	49·713	49·778	...	+ 32 32 19·46	...	...	20·37	20·72	...
2330*	2·7	55 36·748	36·72	36·70	36·693	36·713	...	− 30 2 11·68	11·11	10·03	13·07	11·35	...
2331	7·5	55 43·251	43·17	...	...	...	...	− 46 42 23·12	23·67	...	...	...	...
2332	5·8	55 47·099	47·06	...	...	...	...	− 38 24 39·30	39·18	...	...	...	...
2333*	4·0	55 48·331	...	...	...	48·388	48·381	− 5 53 36·11	...	...	...	35·47	36·57
2334	7·0	56 29·352	29·33	...	...	...	...	− 78 2 6·97	8·48	...	...	...	...
2335	5·7	57 21·170	21·19	...	21·268	...	21·078	− 31 12 26·44	25·99	...	27·62	...	25·56
2336	7·9	57 31·817	31·44	31·62	...	31·71	...	− 84 54 37·00	35·93	36·05	...	36·16	...
2337*	5·0	57 37·295	37·21	...	...	...	...	− 52 30 3·86	3·92	...	...	...	...
2338*	3·9	58 5·459	5·36	...	5·461	5·430	5·345	− 21 54 6·87	6·45	...	7·08	7·52	6·73
2339	6·4	58 38·032	37·89	...	...	...	...	− 48 27 52·16	52·42	...	...	...	...
2341	8·0	18 59 35·025	...	...	...	...	35·056	− 1 6 1·67	...	...	...	...	0·04
2342*	3·5	19 0 4·328	4·28	...	4·328	...	4·213	− 27 49 49·68	48·95	...	49·95	...	49·36
2343*	3·1	0 21·246	21·19	21·19	21·219	21·226	21·251	+ 13 42 0·60	1·10	1·53	0·90	1·60	2·07
2344*	3·6	0 24·676	24·67	24·70	24·614	24·660	24·557	− 5 2 49·15	48·10	48·53	48·83	48·53	48·21
2345*	5·5	1 48·898	...	...	48·923	...	48·924	− 19 27 42·45	...	...	43·77	...	42·52
2346*	4·2	1 59·260	59·25	...	...	...	...	− 38 4 29·50	30·14	...	...	...	...
2347	5·9	2 12·701	12·73	...	...	...	...	− 42 3 58·17	58·70	...	...	...	...
2348*	3·1	3 13·319	13·21	13·30	13·288	13·281	13·182	− 21 11 51·39	51·33	51·41	52·52	51·97	51·36
2350	6·2	3 20·940	...	...	20·866	...	...	+ 21 31 23·96	...	...	23·49	...	...
2351*	5·2	3 22·522	...	...	22·568	...	...	+ 35 55 40·51	...	...	40·65	...	...
2354*	5·6	6 8·080	8·14	...	...	...	...	− 66 50 57·76	57·10	...	...	...	...
2355*	6·3	6 27·107	27·10	...	27·177	...	26·998	− 26 5 25·13	25·24	...	26·84	...	25·44
2356*	5·9	6 39·394	39·32	...	...	...	...	− 45 22 41·77	41·95	...	...	...	...
2357*	5·8	6 42·700	42·63	42·70	42·638	42·691	42·610	− 8 7 22·11	22·03	21·01	22·34	21·36	22·03
2358	6·9	7 37·531	37·45	...	...	...	...	− 30 1 5·41	6·08	...	...	...	...
2361	7·5	9 25·840	25·85	...	...	...	...	− 25 51 25·79	25·22	...	...	...	...

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		Cape. 1890.	Cape. 1880.	Melbourne. 1880.	Greenwich. 1880.	Cape. 1885.	Radcliffe. 1890.	Cape. 1890.	Cape. 1880.	Melbourne. 1880.	Greenwich. 1880.	Cape. 1885.	Radcliffe. 1890.
		h m s	s	s	s	s	s	° ′ ″	″	″	″	″	″
2363*	5·4	19 11 4·355	...	...	4·342	...	...	+ 4 38 28·08	...	...	28·91	...	...
2364*	4·9	11 11·953	11·92	11·89	11·921	11·883	11·851	— 19 8 52·63	52·40	52·78	53·36	52·58	51·76
2367*	4·3	12 32·777	...	...	32·954	...	32·922	+ 37 56 17·35	...	...	17·55	...	17·51
2368*	5·1	12 39·178	39·15	39·13	39·158	39·182	39·209	+ 11 23 50·70	50·94	51·60	50·43	51·09	51·94
2369*	5·4	12 56·682	...	...	56·660	...	...	+ 0 53 8·42	...	...	8·68	...	...
2370	6·7	13 21·569	21·77	21·53	...	...	...	— 81 58 23·87	25·55	23·69	...	...	...
2371	7·5	14 5·662	5·31	...	...	...	...	— 75 23 11·07	10·59	...	...	...	...
2372*	5·3	14 40·553	...	...	40·523	...	40·483	— 5 37 14·56	...	...	15·44	...	14·13
2374*	4·0	14 43·680	43·73	...	...	43·672	...	— 44 39 52·46	52·12	...	...	52·49	...
2375*	5·6	14 55·122	...	...	55·145	...	55·076	— 1 5 46·70	...	...	46·47	...	46·00
2376*	4·4	15 16·139	16·03	...	...	16·237	...	— 45 0 20·77	21·35	...	...	21·00	...
2378*	3·9	15 17·537	17·53	...	17·554	17·582	17·537	— 18 3 12·94	13·11	...	13·36	13·14	12·82
2379*	4·1	16 15·819	15·87	...	...	15·832	...	— 40 49 19·32	19·04	...	...	19·03	...
2380	7·0	16 22·518	...	...	...	...	22·489	— 8 24 30·79	...	...	...	...	28·76
2383*	5·9	18 50·176	50·18	...	50·185	...	50·043	— 24 10 36·91	38·11	...	38·01	...	37·25
2384*	5·4	18 57·853	57·78	...	...	...	...	— 54 32 36·97	37·15	...	...	...	...
2385	7·5	19 25·051	24·90	...	...	...	...	— 73 43 15·96	17·05	...	...	...	...
2386*	5·3	19 43·503	...	...	43·476	...	...	+ 11 42 33·78	...	...	33·70	...	...
2387*	6·5	19 44·006	43·92	...	...	...	...	— 68 39 23·90	24·35	...	...	...	...
2388*	3·5	19 57·104	57·07	57·08	57·079	57·126	57·133	+ 2 53 45·16	45·45	45·81	45·36	45·86	46·50
2389*	5·8	19 59·344	59·27	...	59·375	...	...	— 29 57 35·73	36·07	...	36·86	...	...
2391*	6·0	20 52·645	...	...	52·645	...	...	+ 24 42 52·56	...	...	52·70	...	...
2392	8·0	21 11·364	11·34	...	...	...	...	— 59 26 43·66	43·45	...	...	...	...
2394*	7·8	21 28·437	...	...	...	...	28·407	— 5 57 14·62	...	...	...	...	14·08
2395	5·8	21 34·682	34·45	...	...	...	...	— 43 39 53·98	51·82	...	...	...	...
2396	6·7	21 38·952	39·08	...	...	...	...	— 55 20 4·01	4·07	...	...	...	...
2398*	8·2	23 5·729	...	...	...	...	5·696	— 6 23 54·04	...	...	...	...	53·96
2400*	5·7	23 27·287	...	...	27·222	...	...	+ 1 43 34·05	...	...	34·25	...	...
2401*	4·7	24 7·606	7·64	...	7·656	7·658	7·721	+ 24 26 33·08	34·19	...	32·77	33·66	34·29
2402*	8·5	24 9·458	...	...	...	...	9·427	— 5 8 59·03	...	...	...	...	58·58
2403	6·0	24 12·561	12·51	...	...	...	...	— 53 24 58·74	58·20	...	...	...	...
2404*	8·4	25 21·189	...	...	...	...	21·125	— 5 54 5·94	...	...	...	...	5·71
2405*	8·3	25 43·528	...	...	...	...	43·492	— 5 20 55·70	...	...	...	...	55·34
2407*	3·0	26 17·078	...	...	17·124	17·094	...	+ 27 43 44·30	...	...	44·10	44·94	...
2408*	5·0	27 3·231	3·19	3·09	...	...	...	— 48 20 6·98	6·96	7·33	...	...	...
2410	7·2	27 18·571	18·65	...	...	...	..	— 53 14 42·29	41·32	...	...	...	...
2412*	4·8	27 40·970	...	...	41·012	...	41·025	+ 34 13 9·92	...	...	9·80	...	9·56
2413	7·3	27 45·564	45·45	...	...	...	...	— 69 34 52·16	53·13	...	...	...	...
2414*	7·5	27 53·709	...	...	...	...	53·624	— 4 58 42·07	...	...	...	...	41·18
2415*	8·5	28 40·860	...	...	...	...	40·788	— 4 41 16·22	...	...	...	...	15·20
2416*	7·8	29 23·950	...	...	...	...	23·915	— 4 32 58·54	...	...	...	...	57·83
2417	6·7	29 25·747	...	...	...	...	25·723	— 12 29 34·80	...	...	...	...	35·52
2418*	4·6	30 0·782	0·70	0·70	0·765	0·758	0·696	— 25 7 32·13	32·59	31·69	33·38	32·24	31·34
2421*	7·7	30 44·359	...	...	...	...	44·334	— 5 0 55·28	...	...	...	...	55·43
2422*	7·9	30 56·601	...	...	...	...	56·516	— 4 32 36·28	...	...	...	...	35·52
2423*	4·9	30 58·382	58·40	58·32	58·399	58·413	58·405	— 7 16 17·18	17·56	16·88	17·52	17·27	16·44
2424	5·2	.....	...	...	...	...	...	+ 42 10 19·03	...	...	18·51	...	...
2425*	8·0	31 25·330	...	...	...	...	25·327	— 3 43 11·69	...	...	...	...	11·17
2427*	5·7	31 57·172	...	...	...	...	57·123	— 4 53 32·93	...	...	...	...	32·75
2431*	4·7	.....	...	...	...	...	...	+ 49 57 58·75	...	...	59·68	...	59·23

No.	Mag.	Mean R.A. 1890·0.						Mean Dec. 1890·0.					
		Cape. 1890.	Cape. 1880.	Melbourne. 1880.	Greenwich. 1880.	Cape. 1885.	Radcliffe. 1890.	Cape. 1890.	Cape. 1880.	Melbourne. 1880.	Greenwich. 1880.	Cape. 1885.	Radcliffe. 1890.
		h m s	s	s	s	s	s	° ′ ″	″	″	″	″	″
2432*	5·5	19 34 25·251	25·23	...	25·273	...	25·257	− 16 32 41·44	41·26	...	42·10	...	40·15
2433*	6·6	34 30·109	...	...	...	...	30·023	− 5 41 59·69	...	...	...	...	58·58
2434*	7·6	34 56·731	...	...	...	...	56·648	− 4 17 13·44	...	...	...	...	12·78
2435*	6·3	35 43·073	43·09	43·14	...	43·25	...	− 81 37 22·88	22·81	22·44	...	23·26	...
2436*	7·6	35 59·249	...	...	...	...	59·173	− 4 32 41·80	...	...	...	...	41·09
2438*	4·4	36 6·483	...	...	6·454	6·452	...	+ 17 13 17·42	...	...	17·05	18·42	...
2439*	5·5	36 43·511	43·39	...	...	...	...	− 72 46 12·34	11·57	...	...	...	...
2440*	5·7	38 60·059	60·12	...	...	...	59·872	− 32 10 23·47	24·28	...	...	...	23·63
2441*	5·6	39 2·026	2·01	...	...	...	...	− 56 37 32·97	33·51	...	...	...	...
2442*	5·4	39 8·450	...	...	8·499	...	...	+ 25 30 31·52	...	...	31·74	...	...
2443	7·0	39 20·699	20·70	...	...	...	...	− 62 4 52·44	51·90	...	...	...	...
2444*	8·4	39 26·870	...	...	...	...	26·848	− 4 47 14·58	...	...	...	...	13·93
2445*	5·1	39 56·738	...	56·67	56·704	56·684	56·716	− 20 1 29·47	...	30·37	30·21	29·49	28·35
2447*	2·8	41 1·790	1·75	1·74	1·766	1·782	1·781	+ 10 20 44·03	44·57	44·66	43·58	44·50	45·08
2448*	7·9	41 2·730	...	...	...	...	2·650	− 3 55 52·60	...	...	...	...	52·19
2449	5·5	41 24·520	24·53	...	...	...	...	− 59 28 0·18	0·98	...	...	...	...
2450*	3·1	41 32·139	...	32·15	32·190	...	...	+ 44 51 45·67	...	43·47	44·94	...	...
2451*	7·9	41 56·524	...	...	...	...	56·503	− 5 30 14·36	...	...	...	...	14·64
2452	6·3	42 11·343	11·30	...	...	...	...	− 47 49 51·15	51·81	...	...	...	...
2453*	3·7	42 28·959	...	...	28·976	28·949	28·982	+ 18 15 47·48	...	...	47·57	48·32	47·59
2454*	7·9	43 7·710	...	...	...	...	7·647	− 4 46 10·33	...	...	...	...	9·12
2455	6·7	43 21·853	21·85	...	...	...	...	− 51 15 10·56	9·64	...	...	...	...
2456*	8·0	43 47·039	...	...	...	...	46·987	− 4 48 17·28	...	...	...	...	16·31
2457*	6·7	44 59·390	...	...	...	...	59·367	− 4 58 18·65	...	...	...	...	19·02
2458*	6·2	45 3·977	3·99	...	...	...	...	− 61 27 13·21	13·34	...	...	...	...
2459*	1·0	45 24·937	24·94	24·93	24·940	24·937	24·982	+ 8 34 41·68	43·03	41·98	40·96	41·72	42·20
2460	5·5	46 50·670	...	...	50·863	...	...	+ 40 19 12·42	...	...	12·29	...	...
2461*	Var.	46 52·257	52·11	52·14	52·119	52·151	...	+ 0 43 26·17	26·39	26·07	25·10	25·94	...
2463*	8·2	47 30·388	...	...	...	...	30·377	− 4 51 23·63	...	...	...	...	22·98
2464*	4·1	47 40·250	40·31	...	...	...	...	− 42 9 22·77	22·76	...	...	...	...
2465*	4·0	47 51·458	51·49	51·48	...	51·581	...	− 73 11 57·37	57·54	57·20	...	57·43	...
2466	5·3	47 51·694	51·65	...	...	...	...	− 59 11 22·59	23·07	...	...	...	...
2468*	8·1	48 25·682	...	...	...	...	25·559	− 5 19 51·53	...	...	...	...	51·40
2470	5·8	.....	...	...	...	...	...	+ 47 38 53·55	...	...	52·26	...	...
2472	6·6	49 53·806	53·69	53·62	...	...	...	− 30 51 38·49	38·73	37·60	...	...	...
2473*	4·0	49 54·582	54·54	54·54	54·528	54·573	54·587	+ 6 7 56·52	56·58	56·90	56·92	57·08	57·73
2475*	8·1	51 29·121	...	...	...	...	29·051	− 4 58 45·28	...	...	...	...	45·11
2476*	8·5	52 6·770	...	...	...	...	6·680	− 5 28 50·20	...	...	...	...	49·89
2477*	5·0	52 15·060	15·00	14·89	15·082	...	14·846	− 26 29 33·61	33·53	33·10	35·12	...	32·64
2478*	8·0	52 21·367	...	...	...	...	21·323	− 6 38 47·13	...	...	...	...	46·37
2479*	4·7	52 34·522	34·46	...	34·286	...	...	− 35 34 22·66	22·69	...	24·45	...	...
2480*	8·0	52 41·259	...	...	...	...	41·171	− 4 39 7·49	...	...	...	...	6·71
2481*	3·7	53 51·917	...	...	51·821	51·963	51·901	+ 19 11 37·79	...	...	37·75	38·33	37·52
2482	7·0	54 6·241	...	...	...	6·260	6·162	− 20 9 25·84	...	...	...	25·81	25·22
2483	8·0	54 19·483	19·55	...	...	...	...	− 36 58 48·74	49·52	...	...	...	...
2484*	7·4	55 0·490	...	...	...	...	0·481	− 4 36 43·39	...	...	...	...	43·09
2485*	8·3	55 42·999	...	...	...	...	42·983	− 6 40 40·05	...	...	...	...	40·04
2486*	4·7	55 53·604	53·58	53·55	53·609	53·570	53·578	− 28 0 54·19	53·63	53·29	54·81	53·96	54·30
2488*	6·5	56 20·871	...	...	...	...	20·802	− 5 17 39·62	...	...	...	...	39·05
2489*	4·9	56 34·201	...	...	34·188	...	...	+ 27 26 58·81	...	...	59·62	...	...

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		h m s	s	s	s	s	s	° ′ ″	″	″	″	″	″
2490*	8·0	19 57 8·060	...	...	...	...	8·030	— 8 0 5·15	...	...	...	...	4·62
2491*	6·4	57 13·178	13·22	13·01	13·130	13·125	13·106	— 22 54 12·75	14·82	12·77	14·20	12·86	13·04
2492*	8·1	57 25·038	...	...	...	...	24·889	— 4 56 18·85	...	...	...	...	18·47
2493*	3·6	57 55·603	55·77	...	...	55·544	...	— 66 27 39·92	40·29	...	...	39·51	...
2495*	5·6	58 46·030	...	...	...	45·939	...	+ 6 58 4·17	...	...	...	5·16	...
2496*	4·8	58 57·291	57·28	...	...	...	...	— 53 11 41·08	41·19	..	...	...	...
2497*	8·4	19 59 27·059	...	...	...	...	26·966	— 6 53 48·13	...	...	...	...	47·23
2498	7·5	20 0 0·358	0·23	...	...	...	...	— 79 19 59·12	60·87	...	...	...	...
2499*	7·0	0 48·081	...	...	...	...	47·943	— 4 43 54·05	...	...	...	...	53·69
2500*	7·9	0 49·970	...	...	...	...	49·905	— 7 19 46·12	...	...	...	...	45·80
2501*	7·5	1 6·950	...	...	...	...	6·913	— 8 29 49·76	...	...	...	...	49·33
2502	6·3	1 19·781	19·30	19·54	...	...	...	— 83 38 50·18	51·01	50·03	...	...	...
2503*	8·0	1 51·711	...	...	...	...	51·591	— 19 7 16·87	...	...	...	...	16·45
2505*	8·1	2 49·119	...	...	...	...	49·008	— 7 20 23·78	...	...	...	...	23·76
2506*	6·5	5 12·200	...	...	...	12·165	12·181	— 9 10 2·75	...	...	...	2·72	2·10
2507*	4·8	5 20·401	...	...	20·456	...	...	+ 36 30 56·92	...	...	57·61	...	...
2508*	3·4	5 37·739	37·73	37·72	37·705	37·735	37·726	— 1 8 50·23	50·16	51·38	50·20	50·00	49·06
2510*	5·8	7 12·180	...	...	12·158	...	...	+ 26 28 51·70	...	...	52·91	...	...
2514*	4·9	.....	...	...	...	...	...	+ 46 28 60·22	...	58·14	58·78	...	...
2516*	3·8	10 9·945	...	...	10·080	10·064	10·016	+ 46 24 28·45	...	...	28·54	29·44	29·13
2517*	6·3	11 23·166	23·26	...	...	...	...	— 47 54 56·94	57·15	...	...	...	...
2518*	4·5	11 33·046	33·00	33·01	33·010	32·991	32·963	— 12 50 51·50	50·93	51·46	51·37	51·26	50·69
2519*	6·0	11 33·621	...	33·56	33·549	33·591	33·473	— 22 8 56·38	...	57·18	57·09	56·81	56·36
2520*	3·8	11 57·092	57·02	57·01	57·058	57·041	57·031	— 12 53 6·57	7·33	6·45	7·41	6·66	6·63
2521*	5·5	12 4·736	...	...	4·647	4·590	...	+ 24 19 57·22	...	...	56·41	56·82	...
2523*	6·4	14 34·758	...	...	...	...	34·620	— 6 42 18·07	...	...	...	...	17·77
2524*	3·4	14 49·877	49·73	49·80	49·835	49·751	49·797	— 15 7 41·54	40·89	41·03	42·45	41·43	41·15
2525	8·0	.....	...	...	...	...	...	— 23 49 26·95	...	...	...	...	27·81
2526*	5·7	14 59·294	59·26	...	...	...	...	— 42 23 43·73	44·09	...	...	...	...
2530	*	.....	...	...	...	...	...	+ 39 3 22·83	...	...	23·22	...	...
2531*	7·1	16 16·073	15·79	...	...	16·30	...	— 84 46 41·88	42·09	...	...	41·75	...
2532*	2·1	16 56·444	56·58	56·53	...	56·462	...	— 57 5 12·44	11·74	10·85	...	11·56	...
2534*	2·3	18 16·730	...	...	16·770	16·795	16·835	+ 39 54 17·30	...	...	17·53	18·10	17·49
2535*	6·1	18 42·673	42·70	...	42·813	...	42·581	— 29 1 10·05	9·33	...	12·39	...	10·40
2536	6·5	19 39·779	39·53	39·83	...	39·64	...	— 81 39 32·04	32·00	30·80	...	31·86	...
2537*	6·1	19 58·247	...	...	...	...	58·227	— 3 9 24·68	...	...	...	...	24·57
2538*	5·2	21 1·488	...	...	...	1·463	1·485	— 18 34 18·82	...	...	...	18·10	18·10
2540	6·6	21 25·647	25·49	...	...	...	...	— 25 58 8·17	8·83	...	...	...	...
2542*	*	22 35·165	35·12	35·09	35·129	35·126	35·105	— 18 10 36·42	36·08	35·78	36·79	36·45	35·84
2543*	6·5	.....	...	...	...	...	...	— 22 45 20·21	21·05	...	...	...	20·81
2544*	5·5	23 29·819	...	...	29·706	...	...	+ 38 4 44·78	...	...	45·48	...	...
2545*	6·0	.....	...	...	...	...	...	+ 36 5 15·33	...	...	16·08	...	...
2546	6·9	26 1·491	1·55	...	...	...	...	— 41 53 29·09	26·74	...	...	...	...
2548*	4·7	26 27·894	27·87	...	...	28·073	...	— 60 57 4·25	0·88	...	...	3·94	...
2550*	4·1	27 57·440	57·44	57·46	57·429	57·437	57·469	+ 10 55 46·87	46·95	47·14	46·34	47·09	48·22
2552*	5·0	28 21·582	21·60	...	...	...	...	— 61 54 24·86	25·26	...	...	...	...
2553*	6·1	28 26·250	26·31	...	...	...	...	— 76 33 51·11	51·91	...	...	...	...
2556*	3·2	29 49·670	49·60	...	...	49·677	...	— 47 40 27·37	27·41	...	...	27·56	...
2559*	7·0	31 11·065	...	...	...	...	10·969	— 15 31 40·07	...	...	...	...	40·64
2560	6·8	.....	...	...	...	...	...	— 24 36 40·53	41·49	...	...	...	41·17

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		Cape. 1890.	Cape. 1880.	Melbourne. 1880.	Greenwich. 1880.	Cape. 1885.	Radcliffe. 1890.	Cape. 1890.	Cape. 1880.	Melbourne. 1880.	Greenwich. 1880.	Cape. 1885.	Radcliffe. 1890.
		h m s	s	s	s	s	s	° ′ ″	″	″	″	″	″
2561*	3·7	20 32 23·429	...	...	23·395	23·438	23·471	+ 14 12 46·03	...	...	45·82	45·51	46·19
2562*	5·5	33 25·739	25·71	...	...	...	...	— 33 49 13·03	13·45	...	...	...	...
2564*	5·1	33 47·180	...	...	...	47·134	...	+ 9 41 57·01	...	...	...	57·17	...
2565*	5·3	33 47·281	...	47·23	47·175	47·233	47·188	— 18 31 31·85	...	31·90	32·99	31·23	30·76
2566*	4·0	34 31·683	31·66	31·68	31·697	...	31·750	+ 15 31 27·61	27·36	28·44	26·96	...	27·72
2567*	3·5	35 2·268	2·35	2·33	...	2·159	...	— 66 35 50·58	51·55	50·66	...	50·76	...
2569*	4·7	35 57·475	57·47	...	...	...	...	— 52 18 47·00	47·19	...	...	...	...
2570*	1·5	.....	...	...	...	...	40·972	+ 44 53 15·58	15·07	13·75	14·35	16·28	15·09
2571*	4·6	38 19·414	...	...	19·362	19·365	...	+ 14 40 48·67	...	...	48·66	48·80	...
2573	5·5	38 52·679	52·86	...	...	...	...	— 69 10 37·37	37·09	...	...	...	...
2574*	4·3	39 34·916	34·86	34·87	...	...	34·799	— 25 39 56·41	56·28	56·02	...	...	58·84
2575*	5·8	.....	...	...	...	...	47·279	— 21 54 47·98	...	...	49·02	...	47·79
2578*	5·2	41 1·608	1·49	...	...	...	...	— 44 23 19·16	19·34	...	...	...	...
2579*	5·6	41 32·482	...	...	...	...	32·579	+ 15 43 41·45	...	...	...	...	42·11
2580*	4·6	41 33·315	...	...	...	33·161	33·209	+ 15 43 41·22	...	...	...	40·97	43·02
2581*	3·8	41 43·267	43·22	43·21	43·255	43·248	43·231	— 9 53 52·95	52·92	52·23	53·30	52·72	52·00
2582*	2·7	41 45·598	...	...	45·622	...	...	+ 33 33 30·19	...	...	30·29	...	...
2583*	4·6	41 55·923	...	...	55·947	...	55·893	— 5 25 47·98	...	...	48·83	...	46·87
2584*	5·5	42 21·385	...	...	21·395	...	...	+ 5 36 16·23	...	...	15·93	...	...
2585	7·8	42 40·207	40·45	...	...	...	...	— 61 49 27·08	28·04	...	...	...	...
2587*	4·6	.....	...	...	...	...	...	+ 36 5 11·65	...	...	...	11·38	...
2591	6·8	44 59·280	59·09	...	...	...	...	— 28 24 21·34	21·02	...	...	...	...
2592	7·1	44 59·440	59·62	...	...	...	...	— 29 50 57·61	56·66	...	...	...	...
2594*	4·4	45 15·364	15·33	...	15·308	15·328	15·214	— 27 19 48·32	48·20	...	49·64	48·30	49·86
2595*	6·2	45 35·738	...	...	...	...	35·817	— 6 2 15·25	...	...	...	...	14·21
2596*	3·7	46 12·455	12·54	...	...	12·447	...	— 58 52 5·87	5·71	...	...	5·87	...
2597*	5·3	46 30·653	30·59	...	...	...	...	— 40 13 15·59	15·63	...	...	...	...
2598*	*	.....	...	...	...	...	33·998	— 24 11 41·45	42·22	...	...	...	41·28
2599*	4·8	46 43·223	43·15	...	43·194	43·199	43·204	— 9 23 44·22	43·74	...	45·08	44·85	43·87
2600	5·8	49 26·480	...	...	26·524	...	...	+ 33 1 10·83	...	...	10·53	...	...
2603*	5·1	49 52·258	52·21	52·22	52·286	52·290	52·323	+ 27 38 21·87	21·20	22·29	21·95	22·27	23·17
2605	8·0	50 8·774	8·86	...	...	...	...	— 81 7 27·14	24·73	...	...	...	...
2606*	5·9	50 15·177	15·09	...	15·129	...	...	— 26 42 54·41	55·22	...	54·28	...	...
2608	7·5	.....	...	...	...	...	30·865	— 22 25 36·59	...	...	...	...	37·31
2612	7·0	51 4·064	3·44	...	...	...	...	— 85 38 33·53	33·04	...	...	..	...
2613*	5·3	51 21·933	21·98	22·05	...	21·962	...	— 77 26 31·06	32·34	31·03	...	31·08	...
2615*	4·1	53 4·263	...	4·30	...	...	4·348	+ 40 44 37·24	...	36·62	...	...	37·93
2616	7·1	54 24·552	24·58	...	...	...	...	— 30 9 22·77	22·41	...	...	...	...
2617	7·4	54 26·966	27·37	27·40	...	...	...	— 86 5 20·34	20·26	20·37	...	...	...
2618*	4·8	54 32·538	32·50	32·49	...	...	...	— 32 41 13·75	14·20	13·57	...	...	...
2619	7·8	54 33·142	31·90	...	...	...	...	— 85 12 3·00	1·44	...	...	...	...
2620*	5·5	55 56·146	56·09	...	...	...	...	— 39 3 37·07	36·76	...	...	...	...
2621*	7·0	55 59·823	...	...	...	...	59·754	— 12 7 34·74	...	...	...	...	35·73
2622	6·8	56 4·258	4·38	...	...	...	...	— 76 38 59·09	59·58	...	...	...	...
2625*	5·2	58 8·661	8·66	...	...	8·634	8·568	— 20 17 22·19	21·94	...	...	21·62	21·58
2626	7·3	58 10·826	10·70	...	...	...	...	— 37 39 52·95	52·09	...	..	...	...
2629*	4·3	20 59 45·761	45·75	45·73	45·768	45·792	45·737	— 17 40 10·26	10·57	9·72	10·97	10·38	9·55
2630	7:0	21 0 40·470	40·40	...	...	...	40·433	— 23 35 24·00	24·69	...	...	...	24·95
2631*	4·6	0 41·603	41·56	...	41·547	...	...	— 25 26 42·41	43·04	...	43·02	...	...
2632*	3·7	.....	...	...	...	55·803	55·781	+ 43 29 20·92	...	19·59	20·54	22·76	20·59

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		h m s	s	s	s	s	s	° ′ ″	″	″	″	″	″
2633	7·8	21 0 58·230	58·28	...	...	...	...	− 55 44 9·06	9·41	...	...	...	...
2635*	5·0	.....	...	...	...	...	...	+ 38 12 31·79	...	30·32	30·77	32·09	...
2636*	5·3	.....	...	...	...	...	...	+ 38 12 19·36	...	...	19·82	...	...
2639*	5·1	.....	...	...	...	...	...	+ 47 12 24·64	...	...	22·87	...	...
2640*	5·0	3 0·864	0·72	...	...	...	...	− 70 34 26·50	27·32	...	...	...	...
2641	7·0	3 9·500	...	...	...	...	9·422	− 6 1 29·27	...	...	...	...	28·78
2642*	6·2	.....	...	...	...	...	...	− 20 59 51·59	...	...	...	...	51·40
2644*	4·6	3 36·118	36·13	36·06	36·098	36·089	36·038	− 11 48 60·04	59·44	59·78	60·68	59·66	58·68
2645	8·7	4 10·031	...	...	...	10·173	...	− 18 54 18·57	...	...	...	18·36	...
2646*	5·7	6 45·909	45·89	...	45·915	45·900	...	.....	...	...	...	...	...
2647	7·3	.....	...	...	...	...	...	− 25 17 49·26	48·85	...	...	...	50·58
2649*	5·8	7 54·216	54·29	...	...	...	...	− 53 43 3·43	4·59	...	...	...	...
2650	6·5	8 12·736	12·57	...	...	...	...	− 85 16 44·50	43·10	...	...	...	...
2651*	3·5	8 15·234	15·20	15·20	15·256	15·271	15·277	+ 29 46 33·38	33·56	33·58	33·16	33·43	33·95
2652	6·4	8 57·363	...	...	...	...	57·261	− 17 47 59·01	...	...	...	...	58·03
2653*	4·6	9 7·383	7·36	...	...	7·300	...	+ 9 33 41·27	41·72	...	...	41·32	...
2654*	5·3	.....	...	...	...	...	...	− 21 6 28·23	...	...	...	...	27·85
2655*	6·9	9 59·070	59·28	...	...	...	...	− 61 47 55·70	56·00	...	...	...	...
2656*	4·1	10 19·499	19·47	19·51	19·474	19·487	19·499	+ 4 47 36·03	36·56	36·26	35·85	36·48	36·21
2657*	3·9	.....	...	...	...	...	...	+ 37 34 33·17	...	...	33·74	34·98	...
2658*	4·8	11 16·026	15·88	15·90	16·088	...	...	− 32 37 54·00	55·26	52·90	55·65	...	...
2659	7·4	11 39·734	39·84	...	...	...	...	− 50 4 22·95	23·62	...	...	...	...
2660	8·3	12 41·078	41·06	...	...	...	...	− 76 59 33·52	33·15	...	...	...	...
2661*	4·3	13 5·588	...	...	5·702	...	...	+ 38 56 1·65	...	...	1·63	...	...
2662*	4·4	13 23·721	...	...	23·658	...	...	+ 34 26 6·70	...	...	6·68	...	...
2663*	5·0	13 43·363	43·33	43·22	...	...	...	− 41 16 26·22	26·06	25·48	...	...	...
2665	8·0	.....	...	...	...	...	...	− 22 51 6·37	...	...	...	...	7·04
2666	7·4	14 60·192	59·35	...	...	...	...	− 68 42 6·02	10·43	...	...	...	...
2667	6·0	15 14·143	...	...	14·155	...	...	+ 21 33 37·77	...	...	38·11	...	...
2668	6·7	15 17·233	17·15	...	...	...	...	− 29 37 55·84	55·58	...	...	...	...
2669*	5·9	15 18·308	...	18·32	18·264	18·255	18·281	.....	...	...	...	...	...
2670	5·8	16 5·850	...	...	5·832	...	...	+ 23 23 34·75	...	...	34·83	...	...
2673*	4·3	16 59·934	...	...	59·956	59·928	...	+ 19 20 3·15	...	...	2·02	3·02	...
2675	8·5	17 8·911	...	...	...	9·014	...	− 20 9 0·33	...	...	...	0·21	...
2676*	4·2	17 20·342	20·44	...	...	20·374	...	− 65 51 47·41	47·93	...	...	47·22	...
2677*	6·2	18 24·407	24·42	...	...	...	...	− 55 8 5·90	6·18	...	...	...	...
2678	6·8	.....	...	...	...	...	...	− 24 17 43·78	44·19	...	...	...	...
2679*	3·8	20 23·204	23·05	23·12	...	23·177	23·022	− 22 53 14·05	14·57	13·27	...	14·10	14·52
2683	7·1	22 45·268	45·17	...	...	...	...	− 43 59 9·10	8·33	...	...	...	...
2684	7·3	23 1·008	1·01	...	...	...	...	− 38 10 13·61	13·10	...	...	...	...
2685*	6·6	23 49·106	...	...	...	49·134	49·051	.....	...	...	...	...	...
2686	7·0	.....	...	...	...	...	...	− 25 40 27·17	27·23	...	...	...	28·00
2688*	6·6	25 28·581	26·83	29·09	...	25·36	...	− 89 21 42·94	42·88	42·86	...	42·94	...
2690*	3·1	25 46·058	46·03	46·03	46·036	46·061	46·025	− 6 3 17·06	16·75	16·27	17·51	17·03	16·50
2693*	5·6	26 15·730	15·72	...	...	...	...	− 45 20 3·49	3·40	...	...	...	...
2694	7·0	26 47·894	47·92	...	...	...	...	− 47 5 45·46	44·83	...	...	...	...
2696*	5·9	.....	...	...	...	...	...	− 20 34 27·22	...	...	...	...	27·32
2697	6·7	28 58·400	58·37	...	...	...	58·330	− 23 56 35·96	36·47	...	...	...	35·77
2699*	3·7	29 13·032	12·91	...	...	12·805	...	− 77 52 38·38	39·79	...	...	38·65	...
2700*	6·3	29 15·604	15·39	...	...	...	...	− 65 18 56·62	56·89	...	...	...	...

No.	Mag.	Mean R.A. 1890·0.						Mean Dec. 1890·0.					
		Cape. 1890.	Cape. 1880.	Melbourne. 1880.	Greenwich. 1880.	Cape. 1885.	Radcliffe. 1890.	Cape. 1890.	Cape. 1880.	Melbourne. 1880.	Greenwich. 1880.	Cape. 1885.	Radcliffe. 1890.
		h m s	s	s	s	s	s	° ′ ″	″	″	″	″	″
2701*	6·1	21 30 12·433	12·33	12·28	...	...	...	− 33 32 22·32	22·17	21·00	...	...	...
2702*	5·0	.....	...	...	...	...	...	+ 38 2 27·42	...	...	27·09	...	...
2703	8·0	31 11·495	11·15	...	...	...	...	− 71 18 7·76	7·46	...	...	...	...
2704	7·7	31 13·278	13·95	...	...	...	...	− 84 27 50·59	51·55	...	...	...	...
2705*	4·8	31 53·794	53·69	...	53·737	53·737	53·723	− 8 20 50·07	50·18	...	50·38	49·94	49·17
2706	6·7	32 3·476	5·02	...	...	...	...	− 85 32 27·01	27·74	...	...	...	...
2707*	5·1	32 32·207	32·22	...	...	32·440	32·435	+ 39 55 10·34	7·69	...	...	10·13	9·90
2708*	6·8	32 43·739	43·63	...	...	...	...	− 27 47 58·64	59·67	...	...	...	...
2709	8·0	33 25·534	25·47	...	...	...	...	− 49 12 43·96	44·47	...	...	...	...
2710	6·3	33 33·372	...	...	...	33·404	33·310	− 11 4 18·64	...	...	...	18·27	17·36
2711*	*	33 58·637	58·24	...	..	58·63	...	− 83 13 24·67	24·40	...	...	24·47	...
2712*	3·8	33 59·775	59·75	59·70	59·772	59·749	59·713	− 17 9 31·72	31·49	31·20	32·23	32·09	31·69
2714	7·2	.....	...	...	...	...	16·966	− 22 25 39·32	...	...	...	...	39·06
2715*	5·2	35 44·877	44·82	...	...	44·857	44·794	− 23 45 36·06	36·69	...	...	35·39	35·89
2716	6·4	36 9·644	9·95	...	...	...	...	− 57 49 32·63	31·58	...	...	...	...
2718*	4·4	38 23·622	23·53	23·47	23·626	...	...	− 33 31 38·34	37·81	37·92	41·50	...	...
2719*	2·4	38 46·974	46·94	46·94	46·966	46·964	46·987	+ 9 22 15·22	15·18	15·95	14·79	15·87	16·25
2720*	5·5	.....	...	...	...	...	...	+ 37 46 48·25	...	...	48·31	...	...
2721	7·8	39 5·664	5·64	...	...	5·597	...	− 47 54 31·76	31·94	...	...	31·21	...
2722*	5·2	39 8·341	...	...	8·319	8·287	8·336	.....	...	...	...	...	...
2723*	4·2	39 39·826	...	...	39·812	39·752	39·866	+ 25 8 22·89	...	...	22·26	22·86	23·07
2725*	5·4	40 36·795	...	36·85	36·799	36·792	36·748	− 11 52 22·82	...	21·67	23·01	21·95	21·89
2726*	3·0	40 58·152	58·04	58·08	58·136	58·111	58·087	− 16 37 34·01	33·88	33·61	34·26	33·67	34·08
2727	7·5	41 3·638	3·68	...	...	...	...	− 40 1 12·91	13·33	...	...	...	...
2728*	5·7	41 6·326	6·23	...	...	6·384	...	− 47 48 12·64	12·14	...	...	12·44	...
2729	6·6	41 12·478	12·58	...	...	...	...	− 56 4[illegible] 0·32	0·52	...	...	...	...
2730*	5·6	41 28·274	27·95	...	...	...	...	− 70 8 25·75	26·06	...	...	...	...
2731	7·5	.....	...	...	...	...	...	− 20 5 10·59	...	...	...	...	10·03
2732*	5·6	41 39·224	...	...	...	39·327	...	.....	...	...	...	...	...
2734*	4·4	42 43·642	...	...	43·706	...	...	+ 48 48 3·63	...	...	2·28	...	...
2736	7·5	44 19·339	19·25	...	...	...	...	− 80 14 14·87	14·21	...	...	...	...
2737*	6·4	45 35·246	...	...	...	35·238	35·201	.....	...	...	...	...	...
2739	8·1	45 50·974	52·15	...	...	...	...	− 87 0 35·62	35·08	...	...	...	...
2740	7·5	46 16·344	16·51	...	...	16·356	...	− 47 20 56·23	56·30	...	...	55·55	...
2741*	3·2	47 15·987	15·98	...	...	15·981	...	− 37 52 54·58	54·46	...	...	55·24	...
2742*	5·2	47 17·925	17·92	...	17·848	17·861	17·805	− 14 4 8·59	8·98	...	10·08	9·24	8·34
2743*	5·0	48 3·358	3·37	3·35	3·390	3·409	3·452	+ 25 24 27·17	29·43	28·25	27·74	28·23	28·35
2744*	6·1	48 25·614	...	25·68	25·641	25·611	25·627	.....	...	...	...	...	...
2746	7·2	.....	...	...	...	...	...	− 21 39 34·13	...	...	...	...	33·45
2747	7·8	49 46·834	46·79	...	...	46·836	...	− 46 59 59·60	59·61	...	...	59·31	...
2748	6·6	50 21·262	21·45	...	...	21·287	...	− 78 11 15·62	16·74	...	...	15·38	...
2749*	4·5	50 25·620	25·74	...	...	25·722	...	− 55 30 54·39	54·64	...	...	54·24	...
2750	8·6	51 1·150	...	...	...	1·033	...	+ 6 43 16·01	...	...	...	15·55	...
2751	7·5	52 22·134	21·95	...	...	22·069	...	− 46 52 3·97	3·95	...	...	4·22	...
2752*	6·4	52 35·732	...	35·63	35·646	35·652	35·536	− 21 42 26·81	...	26·61	27·73	26·59	26·83
2753	9·4	54 46·430	...	...	...	46·246	...	+ 6 21 42·56	...	...	...	42·02	...
2754*	4·8	54 56·362	56·35	56·32	...	56·354	...	− 57 14 13·84	14·54	13·68	...	14·38	...
2756*	5·6	55 43·802	...	...	43·786	43·789	...	+ 12 35 35·33	...	...	34·76	35·33	...
2757*	6·4	56 8·487	...	8·45	8·509	8·526	8·615	.....	...	...	...	...	...
2758	7·2	56 10·271	10·66	...	...	...	...	− 56 30 16·06	15·89	...	...	...	...

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		Cape. 1890.	Cape. 1880.	Melbourne. 1880.	Greenwich. 1880.	Cape. 1885.	Radcliffe. 1890.	Cape. 1890.	Cape. 1880.	Melbourne. 1880.	Greenwich. 1880.	Cape. 1885.	Radcliffe. 1890.
		h m s	s	s	s	s	s	° ′ ″	″	″	″	″	″
2759	7·5	21 56 38·864	38·85	...	...	38·828	...	− 46 39 25·22	25·27	...	...	24·66	...
2761*	4·5	21 59 29·024	29·11	...	...	...	...	− 40 4 25·97	25·77	...	...	...	...
2762*	4·8	22 0 7·903	...	...	7·876	...	...	+ 4 31 15·62	...	...	15·49	...	...
2763*	3·2	0 8·019	7·99	8·02	8·012	8·044	8·019	− 0 51 14·66	14·01	14·02	14·29	13·77	13·59
2764*	4·3	0 29·770	29·78	29·76	29·729	29·722	29·644	− 14 24 10·96	10·51	9·83	11·89	11·25	10·46
2766*	1·9	1 17·911	17·85	17·79	...	17·893	...	− 47 29 35·85	35·71	34·91	...	35·78	...
2768*	4·0	1 53·402	53·26	...	53·384	53·428	53·394	+ 24 48 28·98	...	...	28·24	28·66	28·84
2769*	4·6	1 57·835	57·84	57·80	...	...	...	− 33 31 29·88	30·12	28·42	...	...	...
2770	6·5	3 0·284	0·27	...	...	...	...	− 48 38 40·74	40·22	...	...	...	...
2771*	5·7	4 21·170	...	...	21·203	21·216	21·198	+ 32 38 6·11	...	...	6·18	5·86	5·92
2772*	5·9	4 37·837	...	...	...	...	37·839	− 4 25 58·68	...	...	...	...	58·03
2773*	3·8	4 39·065	38·97	39·03	39·045	39·061	...	+ 5 39 24·43	24·88	24·51	23·96	25·20	...
2774*	6·8	4 39·695	...	...	39·698	...	39·709	− 11 21 42·13	...	...	41·93	...	41·74
2775*	4·4	5 6·107	...	...	6·098	6·142	6·063	+ 32 38 18·89	...	...	18·97	19·24	18·76
2776*	6·4	5 18·194	...	...	18·234	...	...	+ 20 26 15·19	...	...	14·37	...	...
2777*	5·2	7 39·013	38·97	...	...	...	...	− 80 59 11·41	12·18	...	...	...	...
2778*	5·6	8 4·642	4·59	...	4·650	...	...	− 28 18 42·80	43·20	...	41·56	...	...
2780	8·4	8 45·981	46·12	...	...	...	...	− 79 50 37·47	37·80	...	...	...	...
2781	6·1	8 50·803	50·80	...	...	...	...	− 44 59 51·27	50·85	...	...	...	...
2782*	4·9	8 59·220	59·14	...	...	...	...	− 41 53 36·92	37·19	...	...	...	...
2783	4·7	9 9·367	...	...	9·008	...	...	+ 39 10 10·43	...	...	9·44	...	...
2784	5·8	.....	...	...	...	...	...	+ 44 53 42·17	...	...	42·43	...	...
2785	6·8	10 14·780	14·84	...	...	...	...	− 63 21 34·59	35·15	...	...	...	...
2786*	5·7	10 24·765	25·25	25·06	...	24·97	...	− 86 31 33·04	33·10	32·57	...	33·12	...
2787	8·1	10 42·626	43·02	...	...	...	...	− 84 4 11·07	12·30	...	...	...	...
2788*	2·9	10 57·577	57·60	...	...	57·547	...	− 60 48 26·71	27·16	...	...	27·31	...
2789*	4·3	11 1·742	1·69	1·69	1·710	1·715	1·707	− 8 19 50·68	51·01	50·40	51·29	50·66	50·29
2790*	5·4	11 2·717	2·67	...	...	...	...	− 54 9 23·15	23·02	...	...	...	...
2791	8·0	11 29·951	30·08	...	...	...	...	− 75 31 6·19	7·35	...	...	...	...
2792	9·0	12 50·209	49·88	...	...	...	...	− 79 45 39·35	39·64	...	...	...	...
2794*	5·4	15 9·484	9·30	...	...	...	...	− 72 47 22·04	22·73	...	...	...	...
2796*	5·4	15 32·205	32·20	32·21	32·182	32·185	32·059	− 22 8 56·25	57·26	56·28	58·44	57·11	56·94
2797*	4·1	15 58·453	58·42	58·45	58·448	58·450	58·453	− 1 56 28·92	28·69	29·34	29·26	28·79	28·73
2798*	5·1	16 6·174	...	...	6·173	6·216	...	+ 11 39 4·04	...	...	3·67	3·72	...
2799*	4·8	.....	...	...	...	...	...	+ 45 58 59·16	...	...	57·19	...	...
2800*	5·4	17 37·617	37·61	...	...	...	...	− 58 20 37·03	37·10	.	...	...	...
2802	9·0	19 13·050	...	..	...	12·949	...	+ 2 5 46·98	...	...	...	46·33	...
2803*	4·6	19 39·601	39·50	...	39·478	39·565	...	+ 0 49 9·84	9·59	...	10·40	9·88	...
2804*	4·6	.....	...	...	...	...	...	+ 48 55 8·48	...	...	7·61	...	...
2805	7·1	21 34·018	34·17	...	...	...	...	− 60 36 53·93	53·69	...	...	...	...
2806*	5·5	22 12 280	12·20	...	...	...	...	− 39 41 17·11	17·15	...	...	...	...
2807	8·6	22 12·630	...	...	...	12·780	...	+ 1 5 47·12	...	...	...	46·89	...
2808*	4·1	22 41·562	41·48	...	...	41·600	...	− 44 3 26·13	26·02	...	...	26·45	...
2809	7·3	22 44·213	44·23	...	...	...	...	− 37 31 54·93	54·80	...	...	...	...
2811*	4·5	23 10·015	9·91	...	9·960	10·020	10·019	− 0 34 56·54	55·95	...	56·66	57·79	54·99
2812*	4·3	23 10·094	10·19	...	10·153	...	10·104	− 0 34 59·63	59·33	...	59·99	...	57·85
2813	4·3	23 11·035	11·07	...	...	10·983	...	− 44 18 42·12	41·99	...	...	41·55	...
2814*	4·8	24 49·550	49·52	49·47	49·538	49·488	49·494	− 11 14 26·31	27·03	25·63	27·12	26·39	26·13
2815*	5·5	24 59·897	...	...	60·015	...	...	+ 32 0 34·86	...	...	34·95	...	...
2816*	4·5	25 15·029	14·96	...	15·033	...	...	− 32 54 35·94	35·77	...	34·31	...	...

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		h m s	s	s	s	s	s	° ′ ″	″	″	″	″	″
2817	6·2	22 25 32·170	...	...	32·030	...	32·041	— 7 6 58·61	...	...	58·03	...	57·41
2818*	4·8	25 33·446	33·47	...	...	33·315	...	— 62 32 48·00	48·53	...	...	48·32	...
2819	8·0	26 17·391	...	...	...	17·410	...	— 14 9 39·31	...	...	...	38·68	...
2821*	3·9	.....	...	...	...	...	...	+ 49 43 2·56	...	...	0·83	5·31	...
2822	8·2	27 4·000	...	...	3·929	...	...	+ 0 32 16·80	...	...	16·44	...	...
2823	7·4	27 22·989	22·82	...	...	...	...	— 30 13 53·14	53·00	...	...	...	...
2825*	5·2	28 40·580	40·55	40·46	40·562	40·577	40·528	— 21 16 17·10	17·72	16·45	18·61	17·03	16·50
2826*	7·0	28 58·337	...	...	...	58·353	58·297	+ 0 1 47·17	...	...	...	45·66	46·98
2827	6·2	29 33·352	33·35	...	33·318	...	33·204	— 24 33 33·12	33·93	...	35·04	...	34·14
2828*	4·2	29 42·242	42·18	42·18	42·187	42·223	42·212	— 0 41 3·45	3·40	3·17	3·56	3·29	2·78
2829	7·0	30 30·930	...	...	...	...	30·827	— 8 14 2·67	...	...	...	...	2·00
2831	7·8	31 50·307	50·13	50·31	...	50·18	...	— 84 18 58·17	58·46	57·94	...	57·93	...
2832*	5·5	32 3·495	...	...	3·545	3·554	3·478	.....	...	...	...	...	...
2834*	5·5	32 38·475	38·45	...	...	...	...	— 33 39 12·61	12·35	...	...	...	...
2835	5·8	33 47·814	47·76	...	...	...	...	— 57 59 42·97	43·82	...	...	...	...
2836*	5·0	34 19·430	...	...	19·537	19·577	...	+ 38 28 40·05	...	...	39·75	40·25	...
2837*	4·1	34 34·282	34·23	..	34·199	...	...	— 27 37 1·17	1·78	...	2·03	...	...
2838*	4·4	34 46·418	46·67	46·37	...	46·15	...	— 81 57 27·67	28·81	27·47	...	27·91	...
2840*	3·6	35 58·509	58·51	58·50	58·524	58·529	58·530	+ 10 15 26·26	25·91	26·80	25·48	26·53	26·57
2841*	2·1	36 5·760	5·74	...	...	5·758	...	— 47 27 34·47	34·30	...	...	34·45	...
2842	4·8	37 7·096	7·05	...	...	...	...	— 41 59 14·62	13·29	...	...	...	...
2844*	6·2	37 29·595	...	...	29·571	...	29·567	— 7 32 19·40	...	...	19·56	...	18·30
2845*	3·1	37 50·688	...	...	50·776	50·787	50·722	+ 29 38 45·24	...	...	45·60	45·46	46·61
2847*	6·5	39 30·289	30·21	...	30·247	30·258	...	— 25 48 54·17	53·93	...	55·23	54·10	...
2849	5·5	40 4·604	4·57	...	...	...	...	— 80 42 13·01	13·44	...	...	14·17	...
2850*	4·2	41 13·920	...	...	13·940	13·916	13·946	+ 22 59 12·90	...	...	12·56	13·00	12·95
2851*	3·7	41 54·382	54·38	...	...	54·416	...	— 51 53 42·24	42·30	...	...	42·20	...
2853*	4·1	43 46·044	46·06	45·98	46·017	46·030	45·936	— 14 10 22·51	22·56	22·41	23·64	22·61	23·39
2854*	3·7	44 41·589	41·60	...	41·616	41·637	41·655	+ 24 1 15·03	15·40	...	14·70	14·65	14·94
2855*	5·4	44 46·390	46·25	46·30	...	...	...	— 39 44 20·94	20·22	19·52	...	...	...
2856*	6·0	45 1·097	1·15	...	...	...	...	— 63 46 13·67	13·90	...	...	...	...
2858*	4·7	46 24·560	24·53	...	...	...	...	— 33 27 31·26	30·93	...	...	...	...
2859*	3·8	46 52·523	52·50	52·48	52·512	52·503	52·470	— 8 9 53·40	53·05	52·51	53·62	53·17	52·54
2860*	6·3	46 59·720	59·81	...	...	...	...	— 70 39 39·14	39·50	...	...	...	...
2864*	3·4	48 48·761	48·65	48·67	...	48·682	48·592	— 16 24 20·38	19·59	20·81	...	20·53	20·13
2867	6·6	49 36·242	...	...	...	...	36·143	— 20 43 30·48	...	...	...	...	31·00
2868*	5·0	49 41·394	...	...	...	41·408	...	.....	...	...	...	...	...
2870*	1·3	51 34·287	34·20	34·19	34·253	34·228	34·157	— 30 12 18·45	18·15	17·23	19·07	17·85	18·52
2871	8·0	53 41·430	41·33	...	...	...	...	— 47 4 51·79	51·38	...	...	...	...
2872*	5·6	53 49·156	...	...	...	49·173	49·139	.....	...	...	...	...	...
2873	7·2	54 21·449	21·41	...	...	...	...	— 50 2 27·81	27·63	...	...	...	...
2874*	4·1	54 23·004	22·83	...	...	22·877	...	— 53 20 37·88	38·16	...	...	37·23	...
2875*	3·8	56 51·601	...	...	51·598	51·561	51·564	+ 41 44 5·52	...	...	5·01	7·01	5·29
2876	5·1	57 24·445	24·49	...	...	...	...	— 35 20 38·77	38·93	...	...	...	...
2877*	5·5	57 35·351	35·18	...	...	...	...	— 69 24 53·33	53·73	...	...	...	...
2879*	Var.	58 26·503	...	...	26·420	26·537	26·485	+ 27 29 10·41	...	...	10·27	10·21	10·62
2880*	2·6	59 16·819	16·82	16·82	16·855	16·826	16·876	+ 14 36 48·47	49·03	49·17	48·17	48·61	49·16
2881*	6·4	59 23·622	...	...	...	...	23·487	— 17 40 17·09	...	...	...	...	16·43
2882	6·1	22 59 24·078	23·85	...	...	24·10	...	— 80 4 25·87	26·26	...	...	26·09	...
2884*	*	23 0 40·831	40·70	...	...	40·788	...	— 44 6 51·39	51·48	...	...	51·37	...

No.	Mag.	Mean R.A. 1890·0.						Mean Dec. 1890·0.					
		Cape. 1890.	Cape. 1880.	Melbourne. 1880.	Greenwich. 1880.	Cape. 1885.	Radcliffe. 1890.	Cape. 1890.	Cape. 1880.	Melbourne. 1880.	Greenwich. 1880.	Cape. 1885.	Radcliffe. 1890.
		h m s	s	s	s	s	s	° ′ ″	″	″	″	″	″
2885*	4·8	23 0 46·279	46·12	...	46·274	...	46·179	— 24 20 13·79	15·12	...	15·69	...	13·46
2887	6·5	2 41·241	41·08	...	...	...	...	— 68 28 14·32	12·77	...	...	...	...
2889	6·5	2 57·478	57·62	...	...	...	...	— 81 30 33·10	33·18	...	...	...	...
2891*	3·6	3 34·888	34·79	34·76	34·857	34·832	34·671	— 21 46 9·63	9·38	10·16	10·72	9·57	9·24
2892	6·8	3 47·809	47·80	...	...	...	...	— 61 9 35·76	36·35	...	...	...	...
2893*	4·1	4 7·795	7·66	...	...	7·805	...	— 45 50 32·73	33·36	...	...	32·16	...
2895*	5·1	6 10·902	...	...	...	10·964	. .	.....	...	...	...	...	...
2899*	4·2	8 37·521	37·46	...	37·464	37·482	37·458	— 6 38 30·82	30·50	...	31·14	31·29	30·42
2900	6·4	9 11·028	...	...	10·897	...	...	+ 23 30 13·09	...	...	12·51	...	...
2902*	5·7	10 20·473	20·38	...	...	...	...	— 62 36 1·94	1·45	...	...	...	...
2903	6·7	10 45·902	45·93	...	...	...	...	— 41 47 42·31	42·48	...	...	...	...
2904*	4·0	11 0·300	0·33	...	...	0·270	...	— 58 50 19·13	19·52	...	...	19·72	...
2905*	5·6	11 16·558	17·26	17·14	...	17·04	...	— 88 5 9·29	9·11	8·93	...	9·32	...
2906*	3·8	11 27·758	27·69	27·72	27·733	27·742	27·749	+ 2 40 52·53	52·48	52·62	52·38	52·71	53·22
2908*	4·3	12 52·975	52·97	...	53·006	...	...	— 33 7 52·22	51·85	...	53·01	...	...
2909*	5·7	13 41·787	...	...	41·709	41·727	41·676	...	...	...	...	...	...
2911*	4·7	15 11·511	...	...	11·546	11·473	...	+ 23 8 17·90	...	...	17·68	17·35	..
2912*	5·9	15 23·784	23·72	...	23·789	...	...	— 27 35 20·55	20·66	...	22·26	...	...
2914	6·7	15 41·268	...	...	...	...	41·356	— 5 16 27·89	...	...	...	...	26·57
2915*	4·1	17 11·606	11·49	11·51	...	11·579	11·569	— 20 42 3·45	3·43	2·45	...	3·26	2·99
2917	7·6	18 4·774	4·85	...	...	4·74	...	— 86 18 50·72	50·63	...	...	50·79	...
2918*	6·8	18 16·257	16·30	...	...	...	16·300	— 22 22 32·91	34·08	...	...	...	34·21
2921	5·5	19 2·830	2·61	...	...	...	...	— 57 27 9·70	10·01	...	...	...	...
2923*	4·6	19 53·305	...	...	53·298	53·326	...	+ 22 47 54·79	...	...	54·73	54·20	...
2924*	4·4	20 16·058	16·09	...	16·060	...	16·006	— 21 14 41·14	41·35	...	43·05	...	40·97
2925*	5·5	20 27·011	26·92	...	...	...	...	— 53 19 49·40	48·92	...	...	...	...
2926*	7·0	20 47·514	47·43	...	...	...	47·439	— 22 20 44·55	45·24	...	...	...	44·62
2927*	5·0	21 17·607	17·57	17·56	17·576	17·610	17·596	+ 0 39 12·28	12·07	12·46	12·00	12·64	12·86
2928*	4·4	22 23·295	23·29	...	...	23·278	23·226	+ 5 46 29·56	28·55	...	...	29·68	29·07
2929	6·4	22 36·691	36·74	...	...	...	...	— 26 1 32·58	32·99	...	...	...	...
2930*	5·6	22 38·503	38·58	...	...	...	...	— 63 42 57·85	58·32	...	...	...	...
2932*	4·7	23 35·465	...	...	35·398	35·475	...	+ 12 9 13·18	...	...	12·79	13·41	...
2933*	6·3	23 50·843	...	...	50·880	50·809	50·813	— 5 7 54·75	...	...	55·72	52·96	54·64
2935*	5·8	25 28·028	28·07	...	...	...	...	— 45 26 59·35	58·84	...	...	...	...
2937*	5·8	26 12·234	11·98	...	...	...	...	— 77 59 33·93	33·35	...	...	...	...
2939*	4·6	27 4·257	4·38	...	...	...	...	— 38 25 35·46	35·70	...	...	...	...
2940	8·0	27 6·372	6·19	...	...	...	...	— 74 20 36·87	36·68	...	...	...	...
2941*	4·7	27 31·130	...	31·14	31·195	31·184	31·211	— 21 31 20·24	...	19·92	21·68	20·40	19·70
2943*	5·2	28 29·747	...	...	29·705	...	...	+ 30 43 5·37	...	...	4·73	...	...
2944	7·9	28 40·809	40·67	...	...	40·90	...	— 87 0 24·32	23·60	...	...	23·54	...
2945*	4·9	29 9·339	9·28	...	...	...	...	— 43 13 23·64	23·86	...	...	...	...
2946	7·3	30 26·415	...	...	...	...	26·392	+ 27 15 23·60	...	...	...	...	24·12
2947*	4·9	31 55·584	55·54	55·43	...	...	...	— 46 6 3·61	4·14	2·52	...	. .	...
2948*	4·0	.....	...	...	...	...	...	+ 45 51 44·07	...	...	44·25	45·43	...
2949*	4·3	.....	...	...	...	...	...	+ 42 39 33·35	...	31·75	32·83	...	33·02
2951*	4·3	34 17·536	17·49	17·50	17·490	17·532	17·541	+ 5 1 48·24	48·02	48·29	48·10	48·13	48·70
2953*	5·3	34 51·771	51·69	...	...	...	...	— 32 40 52·60	52·80	...	...	...	...
2954*	4·4	.....	...	...	...	...	...	+ 43 43 29·02	...	...	28·79	30·27	...
2955*	5·7	35 52·151	52·19	...	52·110	...	52·101	— 18 38 5·65	5·94	...	4·88	...	5·00
2956*	4·7	36 26·017	25·97	...	25·966	26·029	25·955	+ 1 10 28·23	29·15	...	28·64	28·77	29·70

No.	Mag.	Mean R.A. 1890·0.						Mean Dec. 1890·0.					
		Cape. 1890.	Cape. 1880.	Melbourne. 1880.	Greenwich. 1880.	Cape. 1885.	Radcliffe. 1890.	Cape. 1890.	Cape. 1880.	Melbourne. 1880.	Greenwich. 1880.	Cape. 1885.	Radcliffe. 1890.
		h m s	s	s	s	s	s	° ′ ″	″	″	″	″	″
2957*	4·7	23 37 1·050	...	1·02	1·024	1·062	0·941	− 15 9 11·13	...	10·70	11·06	10·97	11·05
2958*	6·3	37 8·763	...	...	8·727	...	...	+ 15 43 30·25	...	...	30·49	...	...
2960	5·6	37 58·511	58·33	...	...	58·441	...	− 79 24 7·85	7·75	...	...	7·39	...
2961*	6·0	38 7·267	7·34	...	...	...	...	− 71 6 9·52	9·19	...	...	...	...
2962*	5·3	38 29·686	29·64	...	29·803	29·717	29·649	− 18 53 14·70	14·91	...	15·97	15·17	14·06
2964	7·9	40 17·449	17·39	...	...	17·38	...	− 84 28 25·36	25·85	...	...	25·55	...
2965*	6·9	40 42·854	42·73	42·64	...	...	...	− 42 9 60·36	60·04	59·05	...	...	...
2966*	5·4	41 25·497	25·50	25·39	...	...	...	− 50 50 12·76	13·64	12·10	...	...	...
2967	7·3	41 57·054	57·12	...	...	...	...	− 52 48 58·74	58·77	...	...	...	...
2968	7·3	41 60·020	...	...	...	...	59·934	− 5 4 23·69	...	...	...	...	22·28
2971*	4·6	43 11·711	11·61	11·62	11·713	11·692	11·629	− 28 44 19·07	18·50	17·93	20·41	19·18	19·33
2972	5·9	44 52·877	...	...	52·814	...	52·708	− 15 0 45·07	...	...	45·08	...	44·97
2973	6·9	45 13·983	14·08	...	...	...	...	− 49 16 14·72	14·19	...	...	...	..
2974	7·8	45 25·222	25·71	...	...	...	...	− 86 30 28·68	29·23	...	...	...	...
2975*	5·1	45 37·929	37·62	37·83	...	37·70	...	− 82 37 48·14	49·23	48·81	...	48·27	...
2976	6·5	45 55·531	55·55	...	...	...	...	− 35 18 9·56	9·36	...	...	...	...
2978*	5·2	46 53·488	...	...	53·484	53·487	...	+ 18 30 34·20	...	...	33·74	34·08	...
2979	6·7	46 59·730	59·66	...	...	...	59·573	− 25 35 51·22	51·98	...	...	...	52·39
2981	6·8	47 9·697	8·59	...	...	...	...	− 83 37 11·07	11·74	...	...	...	...
2983*	6·4	47 39·523	39·49	...	...	...	39·419	− 24 50 27·62	27·39	...	...	...	28·25
2985	7·5	48 49·294	48·75	...	...	...	...	− 79 6 59·28	59·01	...	...	...	...
2986	6·8	49 24·425	...	...	...	...	24·265	− 10 4 22·65	...	...	...	...	22·07
2987	6·1	49 35·230	35·20	...	...	...	...	− 32 32 1·76	1·67	...	...	...	...
2988	7·0	50 58·492	58·53	...	...	...	...	− 57 45 38·01	38·25	...	...	...	...
2989	6·4	51 27·732	27·63	...	...	...	...	− 27 14 11·35	11·47	...	...	...	...
2990*	5·6	51 29·683	29·81	29·71	...	29·60	...	− 82 46 53·38	53·90	53·57	...	53·48	...
2991	6·7	51 57·312	57·19	...	...	...	...	− 33 48 7·67	8·27	...	...	...	...
2992*	4·6	52 9·216	...	...	9·142	...	...	+ 24 31 48·02	...	...	47·55	...	...
2994	5·1	53 13·558	13·48	13·39	...	...	...	− 53 21 36·96	37·53	36·68	...	...	...
2995*	4·2	53 39·755	39·71	39·72	39·702	39·726	39·747	+ 6 15 15·29	16·02	15·66	15·17	15·64	16·46
2996*	4·6	54 11·664	11·71	...	...	11·677	...	− 66 11 20·43	20·37	...	...	20·25	...
2997*	4·6	55 55·958	55·85	...	...	...	...	− 77 40 22·88	22·56	...	...	...	...
2998	6·7	56 2·613	2·54	...	...	...	...	− 40 45 38·86	39·04	...	...	...	...
2999	6·1	56 6·290	...	...	6·321	...	...	+ 41 45 16·31	...	...	16·58	...	...
3000*	5·1	56 11·221	11·21	11·14	11·163	11·182	11·199	− 3 38 23·42	22·35	22·82	24·25	23·34	23·02
3001*	4·6	56 19·164	19·07	...	...	...	19·008	− 6 37 31·15	30·74	...	...	...	30·92
3003*	4·6	58 6·223	6·24	6·20	6·228	6·245	6·221	− 17 56 53·80	53·65	54·03	54·43	53·96	53·11
3005*	5·6	59 6·128	6·04	...	...	...	...	− 72 2 56·70	56·51	...	...	...	...
3006*	4·6	59 42·288	42·24	...	...	42·270	42·256	− 6 19 22·34	21·44	...	...	22·91	22·15
3007	7·8	59 47·530	...	...	...	...	47·483	− 4 27 46·93	...	...	...	...	46·82

CAPE GENERAL CATALOGUE OF STARS FOR 1890·0.

APPENDIX II.

MERIDIAN OBSERVATIONS

OF THE STARS

α CANIS MAJORIS, α CANIS MINORIS,

β CENTAURI. α^1 AND α^2 CENTAURI

CORRECTED FOR VARIATION OF LATITUDE, FLEXURE ($-0''\cdot30$, SIN. Z.D.), LATITUDE ($-33°.\ 56'.\ 3''\cdot45$), BESSEL'S REFRACTIONS $\times$ ($1 - \cdot00218$), AND REDUCED, WITHOUT PROPER MOTION, TO THE EQUINOX 1890·0.

MERIDIAN OBSERVATIONS OF α CANIS MAJORIS.

DIRECT OBSERVATIONS.

Date.	Obs.	Right Ascension.	Declination.	Date.	Obs.	Right Ascension.	Declination.	Date.	Obs.	Right Ascension.	Declination.	Date.	Obs.	Right Ascension.	Declination.
		h m	° ′			h m	° ′			h m	° ′			h m	° ′
1886.		6 40	−16 33	1886.		6 40	−16 33	1887.		6 40	−16 33	1891.		6 40	−16 33
		s	″			s	″			s	″			s	″
Jan. 28	M	18·26	55·39	Aug. 2	M	18·10	53·47	Aug. 9	M	18·25	55·57	May 22	AC	...	58·72
				3	P	18·24	53·41	10	C	18·20	54·25				
Feb. 2	C	18·18	55·36	10	M	18·31	53·49								
4	C	18·15	53·92	11	C	18·08	54·40	1888.				June 16	M	18·04	59·43
27	M	18·33	(50·59)	12	F	18·29	53·57	Feb. 7	C	18·38	56·47	19	AP	18·08	58·83
								27	C	18·23	55·30	29	M	18·18	58·35
March 6	C	18·24	54·28	1887.											
20	C	18·17	53·51					March 2	C	18·12	55·11				
				June 13	C	18·23	54·51					July 5	P	18·16	58·69
				14	M	18·20	55·04	June 1	C	18·17	55·71	6	W	18·01	59·36
June 9	C	...	53·67	16	F	18·32	53·22	7	C	18·17	55·80	10	AP	18·01	58·94
15	P	18·08	54·21	18	M	18·16	55·61	19	C	18·19	55·14	29	W	18·09	59·06
17	F	18·25	54·48	20	C	18·18	54·70	20	M	18·15	56·56	30	AC	18·05	58·74
18	M	18·18	53·99	22	M	18·28	56·57								
19	C	18·02	54·17	23	F	18·20	54·48	Aug. 2	P	18·21	56·01				
26	M	18·27	53·42	25	M	18·03	55·93					Aug. 6	P	18·04	58·48
29	C	17·98	53·12	29	M	18·14	54·34	9	C	18·07	55·84	11	C	18·10	58·79
								12	M	18·21	55·49	13	P	18·04	58·73
July 8	M	18·16	53·80	July 31	F	18·26	54·55								
12	M	18·18	54·21					1890.							
23	M	18·29	53·90	Aug. 2	C	18·24	55·44	Aug. 5	C	...	57·42				
30	C	18·07	53·90	7	M	18·13	54·33	12	C	...	57·80	1892.			
								14	AP	...	58·23	June 9	W	...	60·58

REFLEXION OBSERVATIONS.

Date.	Obs.	Right Ascension.	Declination.	Date.	Obs.	Right Ascension.	Declination.	Date.	Obs.	Right Ascension.	Declination.	Date.	Obs.	Right Ascension.	Declination.
		h m	° ′			h m	° ′			h m	° ′			h m	° ′
1886.		6 40	−16 33	1886.		6 40	−16 33	1886.		6 40	−16 33	1886.		6 40	−16 33
		s	″			s	″			s	″			s	″
Feb. 16	C	18·10	53·47	July 6	F	18·20	53·34	July 20	M	18·22	54·10	July 29	F	18·18	52·62
				13	M	18·40	...	26	M	18·32	52·54				
June 10	M	18·02	54·53	16	F	18·16	54·34	28	M	18·25	53·60	Aug. 9	C	18·20	53·60

MERIDIAN OBSERVATIONS OF α CANIS MINORIS.

DIRECT OBSERVATIONS.

Date.	Obs.	Right Ascension.	Declination.	Date.	Obs.	Right Ascension.	Declination.	Date.	Obs.	Right Ascension.	Declination.	Date.	Obs.	Right Ascension.	Declination.
		h m	° ′			h m	° ′			h m	° ′			h m	° ′
1886.		7 33	+ 5 30	1886.		7 33	+ 5 30	1886.		7 33	+ 5 30	1886.		7 33	+ 5 30
		s	″			s	″			s	″			s	″
Feb. 2	C	32·72	26·79	March 6	C	(32·93)	...	July 9	M	33·01	29·07	July 27	C	32·83	27·17
6	C	32·77	27·40					10	P	32·82	25·88	30	C	32·86	27·02
8	C	(32·68)	...	April 5	C	(32·74)	28·49	14	P	32·87	26·69				
16	C	(32·74)	27·40					16	F	32·81	27·82	Aug. 1	C	...	28·50
23	C	32·83	...	July 7	F	32·87	27·33	23	M	...	27·51	3	P	...	29·03

Date.	Observer.	Right Ascension.	Declination.
		h m	° ′
1886.		7 33	+ 5 30
		s	″
Aug. 4	C	...	28·14
10	M	...	28·65
16	C	...	28·62
18	C	32·72	27·30
19	M	32·92	28·53
20	F	...	27·69
Sept. 9	M	32·84	...
1887.			
Feb. 3	M	32·72	27·59
7	M	32·74	26·44
June 4	P	...	26·45
6	M	32·69	27·11
7	C	32·82	26·12
8	M	32·66	27·41
9	C	...	26·82
16	F	...	26·91
1888.			
Mar. 3	M	32·73	...
June 18	P	...	26·19
July 17	C	32·62	...
19	C	...	25·37
22	C	...	24·12
Aug. 2	P	...	24·85
8	P	...	25·47
9	C	...	24·23
12	M	32·82	26·19
15	P	...	25·82
16	P	32·75	25·56
17	C	...	25·34
20	P	32·78	25·01
21	C	32·83	26·06
24	M	...	26·19
1889.			
Feb. 19	C	32·82	24·42
22	M	32·64	24·11
July 4	M	...	24·71
17	P	...	24·71
21	C	...	24·41
22	M	...	24·59
25	C	...	24·88
28	P	...	24·56
Aug. 6	C	...	24·38
8	C	...	24·35
11	C	...	24·31
15	M	...	24·35
16	P	...	25·44
20	C	...	24·45
21	M	...	24·57
1890.			
June 12	C	...	22·20
14	AP	...	23·71
17	C	...	22·65
25	C	...	23·33
July 4	AP	...	22·93
9	W	32·64	23·29
10	P	...	24·05
20	P	...	22·93
23	AC	...	23·27
24	W	...	22·91
Aug. 8	M	...	23·90
12	C	...	23·81
13	AC	...	23·48
14	AP	...	22·68
17	C	...	23·28
25	AP	...	22·44
28	AC	...	23·16
1891.			
Jan. 28	P	32·59	22·37
April 9	W	32·55	20·34
June 29	M	32·69	23·39
July 4	AC	...	22·94
6	P	...	21·35
7	W	...	19·97
8	M	32·67	22·02
19	M	...	22·80
30	AC	...	20·21
Aug. 6	P	...	23·04
10	W	...	22·14
1891.			
Aug. 11	C	...	22·46
13	P	...	23·12
17	C	...	22·31
18	M	...	22·15
19	P	...	22·67
20	AC	...	22·57
26	C	...	22·56
1892.			
June 7	AP	...	20·46
13	W	...	20·70
16	W	...	21·22
17	P	...	21·39
July 7	AP	...	21·34
19	AP	...	20·79
31	C	...	21·43
Aug. 1	AP	...	20·50
2	P	...	20·81
10	P	...	21·46
11	C	...	20·85
12	AP	...	22·06
16	C	...	21·72
19	C	...	21·33
1894.			
Feb. 9	W	32·40	19·25
14	W	...	18·58
March 13	P	...	18·62
1895.			
April 10	P	...	17·04

REFLEXION OBSERVATIONS.

Date.	Observer.	Right Ascension.	Declination.
		h m	° ′
1886.		7 33	+ 5 30
		s	″
March 26	C	32·72	28·76
July 20	M	32·88	28·65
25	P	32·85	29·71
28	M	32·80	27·03
Aug. 9	C	...	28·19
1887.			
April 1	M	32·84	27·64

MERIDIAN OBSERVATIONS OF β AND α CENTAURI.

DIRECT OBSERVATIONS.

Date.		Observer.	Right Ascension.			Declination.		
			β	a^1	a^2	β	a^1	a^2
			h m	h m	h m	° ′	° ′	° ′
			13 56	14 32	14 32	−59 50	−60 22	−60 22
1886.			s	s	s	″	″	″
Oct.	26	M	...	...	...	32·20	...	...
Nov.	5	M	...	...	...	28·95	...	...
	7	M	...	...	...	30·15	...	...
	11	M	...	...	...	30·00	...	46·25
	15	M	...	...	...	31·44	...	...
	21	F	...	...	...	30·81	...	47·20
	23	M	...	...	...	30·36	...	...
	25	M	...	...	...	31·39	...	46·54
	26	C	...	...	...	31·02	...	46·76
	28	M	...	...	...	31·13	...	...
	30	F	...	...	...	29·01	...	...
Dec.	2	M	...	...	...	...	...	46·44
	3	P	...	...	...	...	...	46·47
	5	P	...	...	...	...	...	47·96
1887.								
Sept.	20	C	...	...	...	30·18	...	45·49
	21	M	...	...	...	...	61·25	45·61
	23	M	...	...	...	30·63	61·26	45·92
Oct.	3	M	...	...	...	29·97	60·68	45·63
	10	C	...	...	...	30·21	...	44·86
	12	C	...	...	...	29·43	59·92	...
	20	C	...	...	...	31·80	...	45·89
	25	C	...	...	...	28·53	...	...
	26	C	...	...	...	...	59·30	...
	27	C	...	...	...	30·41	...	...
	28	M	...	...	...	31·12	...	45·91
	29	M	...	...	...	...	...	46·58
	31	M	...	...	...	30·60	...	...
Nov.	1	C	...	...	...	...	61·39	...
	3	M	...	...	...	29·96	61·29	...
	4	C	...	...	...	29·72	...	45·60
	6	C	...	...	...	30·56	59·86	...
	7	M	...	...	...	30·21	...	44·80
	9	M	...	...	...	30·57	60·47	...
	13	M	...	...	...	30·31	...	44·72
	14	C	...	...	...	31·54	...	45·53
	15	M	...	...	...	31·19	62·21	...
	18	C	...	...	...	30·55	60·41	...
	21	M	...	...	...	31·89	...	46·39
	22	C	...	...	...	29·66	...	44·18
1887.								
Nov.	23	M	...	...	...	29·80	60·71	...
	25	M	...	...	...	30·05	...	45·75
	27	M	...	...	...	30·48	61·43	...
	28	C	...	...	...	30·66	...	...
	29	M	...	...	...	30·99	...	46·73
Dec.	1	M	...	...	...	29·63	60·77	...
	2	C	...	...	...	30·34	59·95	...
	5	M	...	...	...	...	...	46·83
	6	C	...	...	...	30·50	...	45·86
1888.								
Oct.	2	C	...	...	...	30·11	...	44·00
	5	M	...	...	...	28·81	...	...
	30	M	...	...	...	29·97	...	...
	31	M	...	...	...	...	...	44·10
Nov.	7	M	...	...	...	29·44	60·03	...
	11	M	...	...	...	30·37	...	45·29
	13	M	...	...	...	30·05	59·83	...
	16	C	...	...	...	30·55	59·98	...
	18	P	...	...	...	30·17	...	44·83
	22	C	...	...	...	30·48	...	43·96
	26	M	...	...	...	30·71	...	45·42
	29	C	...	...	...	29·21	60·44	...
1889.								
Oct.	29	M	...	...	...	29·75	...	...
	30	M	...	...	...	...	...	43·19
Nov.	4	M	...	...	...	30·66	...	...
	10	M	...	...	...	29·64	58·99	...
	12	C	...	...	...	30·33	59·75	43·92
1890.								
Nov.	2	M	...	...	...	31·57	...	...
	3	C	...	...	...	29·96	...	...
	4	AP	...	...	...	30·59	...	...
	5	W	...	...	...	30·56	...	42·95
	7	AC	...	...	...	31·17	...	...
	10	M	...	...	...	31·10	...	42·52
	12	AP	...	...	...	29·81	...	...
	19	AP	...	...	...	30·77	60·80	42·84
	26	M	...	...	...	31·41	...	...

Date.		Observer.	Right Ascension.			Declination.		
			β	α^1	α^2	β	α^1	α^2
			h m	h m	h m	° ′	° ′	° ′
			13 56	14 32	14 32	−59 50	−60 22	−60 22
1891.			s	s	s	″	″	″
June	26	M	3·82	...	7·41	30·59	...	42·43
July	22	P	...	...	7·51	...	...	42·53
	23	W	...	...	7·42	...	...	42·05
Oct.	2	C	3·88	6·24	...	30·63	59·20	...
Nov.	16	C	3·84	6·28	7·42	31·38	59·80	42·56
	30	M	3·76	6·02	...	30·80	58·76	...
1893.								
July	4	P	3·88	...	6·53	...	...	...
	5	W	3·83	...	6·51	...	...	...
Sept.	13	W	...	...	6·22	...	...	39·93
	28	AC	3·83	5·27	...	30·12	57·41	...
	29	W	3·95	5·24	...	30·80	59·18	...
Oct.	6	AC	3·82	...	6·43	30·82	..	39·79
	7	W	3·89	...	6·52	29·76	...	39·60
1893.								
Oct.	13	W	3·86	5·39	...	30·47	58·68	...
	16	W	4·02	...	6·73	31·49	...	40·05
	30	AC	3·70	5·08	...	30·84	57·11	...
Nov.	5	AC	3·69	...	6·42	30·72	...	40·62
	6	AP	..	...	(5·72)	...	...	(32·71)
	8	P	3·72	...	6·46	30·81	...	39·66
	9	W	3·87	5·35	...	30·72	59·28	...
	12	AP	3·64	5·12	...	29·38	58·37	...
	15	W	3·83	5·19	...	31·47	58·73	...
1895.								
June	14	W	4·15	4·63	5·89	30·86	56·62	38·64
	15	P	3·82	4·40	5·82	31·65	57·93	39·10
	17	JP	3·93	4·38	5·68	31·87	58·20	38·04
	18	AP	3·84	4·35	5·72	31·41	58·17	39·72
	19	W	4·00	4·38	5·70	30·63	58·43	39·51
	21	AP	3·83	4·34	5·68	31·31	57·61	39·58
	22	W	3·91	4·38	5·67	30·47	57·48	39·74
	24	C	3·79	4·21	5·58	30·39	58·12	38·82
	25	JP	3·80	4·14	5·51	31·08	57·53	40·12
	26	C	3·77	4·26	5·55	29·95	57·52	39·29

REFLEXION OBSERVATIONS.

			h m	h m	h m	° ′	° ′	° ′
			13 56	14 32	14 32	−59 50	−60 22	−60 22
1886.			s	s	s	″	″	″
Oct.	23	M	...	...	...	...	...	46·92
1887.								
June	18	M	...	...	...	...	...	45·90
	22	M	...	...	...	...	61·83	...
1888.								
May	30	M	...	...	8·86	...	...	45·21
June	8	M	...	...	8·80	...	...	45·15

GENERAL CATALOGUE OF STARS FOR 1890·0.

APPENDIX III.

MEAN RIGHT ASCENSIONS AND DECLINATIONS

OF

24 SOUTHERN CIRCUMPOLAR STARS.

INTRODUCTION

TO THE

MEAN RIGHT ASCENSIONS AND DECLINATIONS

OF

24 SOUTHERN CIRCUMPOLAR STARS.

The following pages contain the results of a discussion of places and proper motions of the 24 Southern Circumpolar Stars which are employed for determination of Azimuth at the Cape.

As a rule, only results which depend on double transits (*i.e.*, successive upper and lower culminations of the same star), or at least results in which the Azimuth for each night was determined by double transits, have been employed.

The chief exception to this rule has been the employment of the Cordoba results, where the derminations are not fundamental, there being no systematic early morning as well as early evening observations of Circumpolar Stars. The Cordoba Right Ascensions of Circumpolar Stars practically depend upon the places of 54 Circumpolar Stars, which, in turn, depend on all the observations previous to 1870, and which were corrected from time to time as additional data were secured. The Cordoba observations are so numerous that the successive corrections derived from observing stars both at upper and lower transit will tend, in a considerable degree, to eliminate the errors of the original list; I have, therefore, employed them, although with comparatively small weight, in the present discussion.

The places of Lacaille, Brisbane, Rumker, Gilliss and Moesta have been excluded because of the insufficient stability of the instruments employed or our imperfect

knowledge of the errors of their adjustment. A glance at the residuals from these catalogues, as found by Gould, in his discussion of the places of 54 Circumpolar Stars (Cordoba Observations, Vol. V., Introduction, pp. XXXII.-CXXXIX.), will sufficiently justify this exclusion.

The only systematic corrections applied to the original observations are the following mean corrections to the places of the lists of clock-stars employed by the observers, viz. :—

	s		s
Johnson ...	− 0·02	Cordoba ...	0·00
Henderson ...	+ 0·06	Cape, 1880 ...	+ 0·03
Cape, 1840 ...	+ 0·02	Melbourne, 1880	+ 0·02
„ 1850 ...	+ 0·03	Cape, 1885 ...	0·00
„ 1860 ...	+ 0·03	„ 1890 ...	0·00

In double transits the greater part of the systematic errors in Declination disappear. Thus errors in the adopted latitude entirely disappear, and the outstanding errors of flexure, refraction and periodic error of graduation become comparatively insignificant for stars very near the pole. There remain in the Right Ascensions those errors which are produced by pivot-errors and by difference of personality depending on Declination, magnitude and direction of motion, &c., and there is no doubt that the neglect of a more complete discussion of such errors may produce very sensible errors in the resulting proper motions.

But no such discussion could be advantageously carried out without a simultaneous rigorous discussion of the places of a much larger number of circumpolar stars, and such discussion is beyond the scope of the present work.

Our immediate object is to furnish provisional mean places for the stars in question which shall be sufficiently exact for most practical purposes during the next few years, and to form a point of departure for the discussion of a heliometer-triangulation of the Southern Circumpolar Area, the observations for which are now in progress.

The places of the original Catalogues, deprived of any corrections for proper motion which had originally been applied, were corrected for the already mentioned differences in the clock-star lists, and were then reduced to the Equinox 1900 by the rigorous trigonometrical formulæ, with the Struve-Peters constants of precession.

A preliminary value of the mean place and proper motion for 1900 was then derived for each star by the method of least squares, employing the following system of weights, which assumes that the probable systematic error of any result amounts to one-fourth part of the probable accidental error of a single observation.

No. of Obs.	p	No. of Obs.	p	No. of Obs.	p
1	0·9	12	7·1	50	12·5
2	1·8	14	7·7	75	13·7
3	2·5	16	8·3	100	14·3
4	3·2	18	8·7	150	14·8
5	3·8	20	9·1	200	15·4
6	4·3	25	10·1	300 and upwards	16·0
8	5·3	30	10·8		
10	6·3	40	11·8		

For the different series of observations these weights were then multiplied by the following factors:—

	R.A.	Declination.
Johnson	$\frac{1}{2}$	$\frac{1}{2}$
Henderson	1	1
Cape, 1840	$\frac{1}{2}$	$\frac{1}{2}$
„ 1850	$\frac{1}{4}$	$\frac{1}{4}$
„ 1860	1	1
Melbourne, 1870	$\frac{2}{3}$	$\frac{2}{3}$
Cordoba, 1875	$\frac{1}{4}$	$\frac{1}{2}$
Cape, 1880	1	1
„ 1885	1	1
„ 1890	1	1

With the preliminary places so formed for each epoch, values of C—O were formed. For certain of the closer circumpolars the errors of the original observations (specially those in Declination) were sufficient to produce considerable errors in the reduction of the Right Ascensions from the equinox of the Catalogue to that of 1900. Thus, for example, in the case of B Octantis, we find that, in consequence of an error of about + 1″ in Johnson's Declination (and, in a less degree, from an error in his Right Ascension of the Star), there arises an error of nearly three seconds of time in the original reduction of the Right Ascension from the Equinox of 1830 to that of 1900. In such cases a second and even third approximation were made.

The results of the original and final discussions, together with the probable errors of the co-ordinates and proper motions are given for each star in Table I.

Table II. gives, for each of the 24 Stars, the mean Right Ascension and Declination for every fifth year from 1875 to 1890, and thereafter for every year till 1920. The proper motion in Right Ascension and Declination corresponding to the Struve-Peters Precession for every tenth year from 1880 to 1920, as well as the rigorously computed probable errors of the Right Ascensions and Declinations are given for each of these epochs. From these data it will be seen that whilst, for all the Stars, the Right Ascensions and Declinations are determined with very satisfactory precision for the epoch 1880, the probable errors of these co-ordinates become, for some of the Stars, five times as great for the epoch 1920.

The results of a definitive determination of the places of these 24 Stars and of others besides, for the equinox and epoch 1900 (including the results of a heliometer-triangulation and such meridian observations as have already and subsequently been secured) will be published in the course of a few years. Meanwhile, our Table II. will furnish places sufficiently accurate for Azimuth-determination, and ready and accurate means for reducing current observations of these Stars to a common Equinox.

DAVID GILL.

Royal Observatory,
Cape of Good Hope,
1898, September 26.

MEAN RIGHT ASCENSIONS

AND

DECLINATIONS

OF

24 SOUTHERN CIRCUMPOLAR STARS.

Number in Catalogue.	Catalogue and Equinox.	Number of Observations.	Catalogue R.A. without Proper Motion.	Preliminary Reduction of Observed R.A. to 1900.	Epoch of Observation.	Weight.	Observed Seconds of R.A. finally Corrected to 1900.	Computed Seconds of R.A. from final Results.	C — O.	
									$\Delta\alpha$.	$\Delta\alpha \cos\delta$.
1.			o Octantis.—Right Ascension.							
			h m s	h m s			s	s	s	s
5	Johnson 1830	0	.....	.....	...	...	...	...	...	...
2	Henderson.....1833	19	0 14 43·76	0 12 29·22	1833·	8·9	29·28	29·05	— 0·23	— 0·003
17	Cape 1840	58	0 14 17·88	28·72	37·83	6·5	28·74	29·08	+ 0·34	+ ·004
39	Cape 1850	14	0 13 49·37	29·68	52·47	1·9	29·71	29·18	— 0·53	— ·007
9	Cape 1860	42	0 13 24·91	29·37	58·13	11·9	29·40	29·21	— 0·19	— ·003
...	Cape 1865	11	0 13 14·54	29·28	63·93	6·7	29·31	29·25	— 0·06	— ·001
18	Melbourne.....1870	27	0 13 4·87	28·68	67·3	6·9	28·71	29·27	+ 0·56	+ ·008
222	Cordoba 1875	30	0 12 56·79	28·67	77·33	2·7	28·67	29·33	+ 0·66	+ ·011
100	Cape 1880	21	0 12 50·24	29·21	73·83	9·3	29·24	29·31	+ 0·07	+ ·001
17	Melbourne.....1880	29	0 12 50·02	28·99	75·98	10·7	29·01	29·32	+ 0·31	+ ·005
3	Cape. App. I.....1885	22	0 12 44·84	30·09	86·40	9·5	30·09	29·39	— 0·70	— ·012
...	Cape 1895	26	0 12 33·55	29·32	95·48	10·2	29·32	29·44	+ 0·12	+ ·002
				h m s	s					
			1900. α =	0 12 29·47	+ 0·0062 (t — 1900).					
			Probable Error	± 0·16	± 0·0042 (t — 1900).					
			The corrections to the effect of Precession, depending on errors in the catalogue-places, are insensible.							
2.			Lacaille 634.—Right Ascension.							
			h m s	h m s			s	s	s	s
270	Cape 1850	17	1 46 40·89	1 43 7·34	1852·35	2·1	7·37	7·35	— 0·02	— 0·002
61	Cape 1860	8	1 45 55·63	7·37	56·54	5·3	7·40	7·40	0·00	·000
113	Melbourne.....1870	34	1 45 11·67	7·37	68·8	7·5	7·40	7·53	+ 0·13	+ ·010
1800	Cordoba 1875	216	1 44 50·21	7·41	77·28	3·9	7·41	7·61	+ 0·20	+ ·016
725	Cape 1880	13	1 44 29·30	7·66	71·88	7·4	7·69	7·56	— 0·13	— ·010
104	Melbourne.....1880	40	1 44 29·20	7·56	75·43	11·8	7·58	7·59	+ 0·01	+ ·001
8	Cape, App. I.....1885	22	1 44 8·64	7·87	86·21	9·5	7·87	7·71	— 0·16	— ·013
...	Cape 1895	25	1 43 27·68	7·72	95·55	10·1	7·72	7·80	+ 0·08	+ ·007
				h m s	s					
			1900. α =	1 43 7·85	+ 0·0104 (t — 1900).					
			Probable Error	± 0·06	± 0·0025 (t — 1900).					
3.			Lacaille 1029.—Right Ascension.							
			h m s	h m s			s	s	s	s
2928	Cordoba 1875	4	2 39 33·78	2 35 30·00	1877·48	0·8	30·00	30·28	+ 0·28	+ 0·018
1117	Cape 1880	16	2 38 44·10	30·37	72·24	8·3	30·40	30·37	— 0·03	— ·002
159	Melbourne.....1880	29	2 38 43·94	30·21	76·30	10·7	30·23	30·30	+ 0·07	+ ·005
12	Cape, App. I.....1885	20	2 37 54·62	30·30	84·78	9·1	30·30	30·15	— 0·15	— ·010
...	Cape 1895	25	2 36 17·37	29·90	95·63	10·1	29·90	29·95	+ 0·05	+ ·003
				h m s	s					
			1900. α =	2 35 29·87	— 0·0181 (t — 1900).					
			Probable Error	± 0·08	± 0·0040 (t — 1900).					

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				o OCTANTIS.—Declination.					1.
			° ′ ″	° ′ ″			″	″	″
5	Johnson 1830	9	— 89 18 32·0	— 88 55 10·48	1830·	0	(10·48)	8·35	(+ 2·13)
2	Henderson.....1833	46	— 89 17 29·8	8·36	33·	12·2	8·36	8·35	+ 0·01
17	Cape 1840	122	— 89 15 9·65	8·31	36·14	7·3	8·31	8·35	— 0·04
39	Cape 1850	1	— 89 11 49·68	8·56	50·53	0·2	8·56	8·34	+ 0·22
9	Cape 1860	46	— 89 8 29·15	8·23	58·14	12·2	8·23	8·34	— 0·11
...	Cape 1865	14	— 89 6 49·60	8·80	64·19	7·7	8·80	8·33	+ 0·07
18	Melbourne.....1870	50	— 89 5 9·00	8·30	67·2	8·3	8·18	8·33	— 0·15
222	Cordoba 1875	27	— 89 3 29·07	8·49	77·30	5·2	8·49	8·32	+ 0·17
100	Cape 1880	68	— 89 1 48·54	8·08	74·73	13·4	8·08	8·32	— 0·24
17	Melbourne.....1880	40	— 89 1 48·97	8·51	74·82	11·8	8·51	8·32	+ 0·19
3	Cape, App. I.....1885	10	— 89 0 8·41	8·07	87·26	6·3	8·07	8·32	— 0·25
...	Cape 1895	26	— 88 56 48·52	8·40	95·51	10·2	8·40	8·31	+ 0·09
				° ′ ″	″				
			1900. δ =	— 88 55 8·31	+ 0·001 (t — 1900).				
			Probable Error	± 0·07	± 0·002 (t — 1900).				
			Johnson's Declination has been omitted in the final solution.						
				LACAILLE 634.—Declination.					2.
			° ′ ″	° ′ ″			″	″	″
270	Cape 1850	0	.....	.....	...	...	...	...	...
61	Cape 1860	8	— 85 28 30·12	— 85 16 29·90	1856·53	5·3	29·90	30·15	— 0·25
113	Melbourne.....1870	34	— 85 25 30·51	29·95	68·7	7·5	29·95	29·87	+ 0·08
1800	Cordoba 1875	177	— 85 24 0·76	30·12	76·95	7·6	30·12	29·68	+ 0·44
725	Cape 1880	18	— 85 22 30·57	29·93	73·06	8·7	29·93	29·76	+ 0·17
104	Melbourne.....1880	45	— 85 22 30·13	29·49	76·33	12·1	29·49	29·69	— 0·20
8	Cape, App. I.....1885	20	— 85 20 59·92	29·36	86·14	9·1	29·36	29·46	— 0·10
...	Cape 1895	29	— 85 17 59·56	29·20	95·57	10·7	29·20	29·24	— 0·04
				° ′ ″	″				
			1900. δ =	— 85 16 29·14	+ 0·023 (t — 1900).				
			Probable Error	± 0·21	± 0·009 (t — 1900).				
				LACAILLE 1029.—Declination.					3.
			° ′ ″	° ′ ″			″	″	″
2928	Cordoba 1875	5	— 86 16 9·26	— 86 9 41·74	1877·58	1·9	41·74	41·51	+ 0·23
1117	Cape 1880	17	— 86 14 52·22	41·74	72·40	8·5	41·74	41·51	+ 0·23
159	Melbourne.....1880	32	— 86 14 51·80	41·32	77·52	11·0	41·32	41·51	— 0·19
12	Cape, App. I.....1885	14	— 86 13 34·48	41·30	85·44	7·7	41·30	41·50	— 0·20
...	Cape 1895	29	— 86 10 59·55	41·61	95·64	10·7	41·61	41·49	+ 0·12
				° ′ ″	″				
			1900. δ =	— 86 9 41·49	+ 0·001 (t — 1900).				
			Probable Error	± 0·16	± 0·008 (t — 1900).				

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									$\Delta\alpha$.	$\Delta\alpha \cos\delta$.
4.	**LACAILLE 1848.—Right Ascension.**									
			h m s	h m s			s	s	s	s
171	Melbourne.....1870	4	3 23 15·14	3 3 54·98	1869·6	3·2	55·01	54·63	— 0·38	— 0·009
3715	Cordoba 1875	9	3 19 46·53	53·49	77·62	1·5	53·49	54·22	+ 0·73	+ ·017
1396	Cape 1880	13	3 16 24·96	53·47	72·30	7·4	53·50	54·49	+ 0·99	+ ·023
192	Melbourne.....1880	16	3 16 26·48	54·99	76·72	8·3	55·01	54·26	— 0·75	— ·017
15	Cape, App. I.....1885	22	3 13 9·87	54·18	88·11	9·5	54·18	53·67	— 0·51	— ·012
...	Cape 1895	23	3 6 52·86	52·86	95·65	9·7	52·86	53·29	+ 0·43	+ ·011
				h m s	s					
	1900.		α =	3 3 53·06	— 0·0516 (t — 1900).					
	Probable Error			± 0·46	± 0·0233 (t — 1900).					
5.	**LACAILLE 1707.—Right Ascension.**									
			h m s	h m s			s	s	s	s
702	Cape 1850	2	4 40 37·86	4 34 29·48	1851·07	0·5	29·51	29·56	+ 0·05	+ 0·006
236	Melbourne.....1870	33	4 38 8·55	29·07	68·1	7·4	29·10	29·25	+ 0·15	+ ·018
5310	Cordoba 1875	271	4 37 31·38	28·81	76·98	4·0	28·81	29·09	+ 0·28	+ ·033
2019	Cape 1880	2	4 36 55·04	29·24	73·97	1·8	29·27	29·15	— 0·12	— ·014
250	Melbourne.....1880	25	4 36 55·04	29·24	75·69	10·1	29·26	29·11	— 0·15	— ·018
24	Cape, App. I.....1885	24	4 36 18·29	29·14	88·26	10·0	29·14	28·88	— 0·26	— ·030
...	Cape 1895	26	4 35 4·80	28·55	95·66	10·2	28·55	28·75	+ 0·20	+ ·024
				h m s	s					
	1900.		α =	4 34 28·67	— 0·0183 (t — 1900).					
	Probable Error			± 0·12	± 0·0058 (t — 1900).					
6.	**LACAILLE 2296.—Right Ascension.**									
			h m s	h m s			s	s	s	s
651	Cape 1840	3	6 1 17·84	5 49 34·01	1837·08	1·3	34·03	34·26	+ 0·23	+ 0·021
937	Cape 1850	3	5 59 20·96	34·55	51·17	0·6	34·58	34·11	— 0·47	— ·042
7097	Cordoba 1875	8	5 54 26·78	33·82	75·67	1·3	33·82	33·86	+ 0·04	+ ·004
2724	Cape 1880	16	5 53 27·98	33·66	73·37	8·3	33·69	33·88	+ 0·19	+ ·017
336	Melbourne 1880	21	5 53 28·28	33·96	75·77	9·3	33·98	33·86	— 0·12	— ·011
29	Cape, App. I.....1885	24	5 52 29·62	33·94	86·72	10·0	33·94	33·75	— 0·19	— ·017
...	Cape 1895	24	5 50 32·03	33·51	95·74	10·0	33·51	33·65	+ 0·14	+ ·013
				h m s	s					
	1900.		α =	5 49 33·61	— 0·0103 (t — 1900).					
	Probable Error			± 0·09	— 0·0041 (t — 1900).					

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				LACAILLE 1848.—Declination.					4.
			° ′ ″	° ′ ″			″	″	″
171	Melbourne 1870	5	— 88 40 59·67	— 88 34 19·79	1868·4	2·5	19·79	19·87	— 0·08
3715	Cordoba 1875	9	— 88 39 56·41	20·43	77·62	2·9	20·43	20·14	+ 0·29
1396	Cape 1880	12	— 88 38 50·81	19·93	72·37	7·1	19·93	19·99	— 0·06
192	Melbourne 1880	22	— 88 38 50·94	20·06	76·66	9·5	20·06	20·12	— 0·06
15	Cape, App. I.....1885	10	— 88 37 45·35	20·67	87·59	6·3	20·67	20·44	+ 0·23
...	Cape 1895	24	— 88 35 29·79	20·57	95·65	10·0	20·57	20·68	— 0·11
				° ′ ″	″				
			1900. δ =	— 88 34 20·81	— 0·030 (t — 1900).				
			Probable Error	± 0·10	± 0·005 (t — 1900).				
				LACAILLE 1707.—Declination.					5.
			° ′ ″	° ′ ″			″	″	″
702	Cape 1850	0	.....	.....	...	...	...	...	...
236	Melbourne 1870	39	— 83 10 30·09	— 83 6 55·23	1867·4	7·8	55·23	55·75	— 0·52
5310	Cordoba 1875	205	— 83 9 55·79	56·11	76·74	7·7	56·11	55·60	+ 0·51
2019	Cape 1880	3	— 83 9 20·65	56·43	73·96	2·5	56·43	55·65	+ 0·78
250	Melbourne 1880	34	— 83 9 19·80	55·58	76·81	11·2	55·58	55·60	— 0·02
24	Cape, App. I.....1885	2	— 83 8 43·74	55·20	88·66	1·8	55·20	55·42	— 0·22
...	Cape 1895	26	— 83 7 31·59	55·17	95·66	10·2	55·17	55·32	— 0·15
				° ′ ″	″				
			1900. δ =	— 83 6 55·25	+ 0·015 (t — 1900).				
			Probable Error	± 0·28	± 0·013 (t — 1900).				
				LACAILLE 2296.—Declination.					6.
			° ′ ″	° ′ ″			″	″	″
651	Cape 1840	0	.....	.....	.....	...	...	...	...
937	Cape 1850	0	.....	.....	.....	...	...	...	...
7097	Cordoba 1875	8	— 84 50 26·05	— 84 50 8·55	1875·67	2·7	8·55	8·41	+ 0·14
2724	Cape 1880	21	— 84 50 23·75	8·89	74·07	9·3	8·89	8·56	+ 0·33
336	Melbourne 1880	38	— 84 50 22·65	7·79	77·33	11·6	7·79	8·28	— 0·49
29	Cape, App. I.....1885	16	— 84 50 19·89	8·11	82·53	8·3	8·11	7·83	+ 0·28
...	Cape 1895	25	— 84 50 11·05	6·69	95·75	10·1	6·69	6·70	— 0·01
				° ′ ″	″				
			1900. δ =	— 84 50 6·33	+ 0·086 (t — 1900).				
			Probable Error	± 0·30	± 0·015 (t — 1900).				

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									$\Delta\alpha$.	$\Delta\alpha \cos\delta$.
7.	LACAILLE 2512.—Right Ascension.									
			h m s	h m s			s	s	s	s
1008	Cape 1850	0	.....	.....	...	...	...	...	...	...
235	Cape 1860	6	6 16 37·45	6 6 10·39	1856·21	4·3	10·42	10·47	+ 0·05	+ 0·004
301	Melbourne 1870	27	6 14 0·66	10·00	68·1	6·9	10·03	10·20	+ 0·17	+ ·012
7601	Cordoba 1875	13	6 12 42·25	9·86	74·64	1·9	9·86	10·06	+ 0·20	+ ·014
2881	Cape 1880	4	6 11 24·46	10·45	75·32	3·2	10·48	10·04	— 0·44	— ·031
349	Melbourne 1880	20	6 11 24·12	10·11	76·73	9·1	10·13	10·01	— 0·12	— ·009
32	Cape, App. I.....1885	20	6 10 5·33	9·78	87·99	9·1	9·78	9·76	— 0·02	— ·001
...	Cape 1895	22	6 7 28·06	9·51	95·76	9·5	9·51	9·59	+ 0·08	+ ·006
				h m s	s					
	1900.		α =	6 6 9·50	— 0·0221 (t — 1900).					
	Probable Error			± 0·09	± 0·0039 (t — 1900).					
8.	LACAILLE 3274.—Right Ascension.									
			h m s	h m s			s	s	s	s
356	Melbourne 1870	30	7 31 43·84	7 22 1·28	1867·2	7·2	1·31	1·52	+ 0·21	+ 0·012
9770	Cordoba 1875	316	7 30 9·00	1·79	76·89	4·0	1·79	1·43	— 0·36	— ·020
3713	Cape 1880	6	7 28 32·41	1·27	71·52	4·3	1·30	1·48	+ 0·18	+ ·010
416	Melbourne 1880	26	7 28 33·01	1·49	75·30	10·2	1·51	1·44	— 0·07	— ·004
35	Cape, App. I.....1885	21	7 26 55·91	1·60	84·73	9·3	1·60	1·36	— 0·24	— ·013
...	Cape 1895	27	7 23 39·87	1·09	95·35	10·3	1·09	1·27	+ 0·18	+ ·010
				h m s	s					
	1900.		α =	7 22 1·23	— 0·0087 (t — 1900).					
	Probable Error			± 0·15	± 0·0069 (t — 1900).					
9.	A OCTANTIS.—Right Ascen n.									
			h m s	h m s			s	s	s	s
5	Henderson.....1833	42	8 36 13·61	7 53 3·52	1833·	11·9	3·54	3·57	+ 0·03	+ 0·001
1061	Cape ... .1840	53	8 32 16·18	2·86	37·38	6·3	2·98	3·45	+ 0·47	+ ·013
324	Cape 1860	7	8 20 17·21	3·06	61·32	4·8	3·07	2·77	— 0·30	— ·008
...	Cape 1865	18	8 17 7·20	2·81	62·99	8·7	2·84	2·72	— 0·12	— ·004
408	Melbourne 1870	26	8 13 53·51	3·02	68·2	6·8	2·98	2·58	— 0·40	— ·011
11013	Cordoba 1875	10	8 10 34·62	1·86	76·46	1·6	1·93	2·34	+ 0·41	+ ·011
4191	Cape 1880	41	8 7 12·73	2·15	73·77	11·8	2·21	2·42	+ 0·21	+ ·006
476	Melbourne 1880	42	8 7 13·38	2·80	74·76	11·9	2·83	2·39	— 0·44	— ·012
37	Cape, App. I.....1885	18	8 3 46·17	1·87	85·06	8·7	1·94	2·10	+ 0·16	+ ·004
...	Cape 1895	26	7 56 40·50	1·54	95·40	10·4	1·53	1·81	+ 0·28	+ ·008
				h m s	s					
	1900.		α =	7 53 1·68	— 0·0282 (t — 1900).					
	Probable Error			± 0·14	± 0·0035 (t — 1900).					

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	LACAILLE 2512.—Declination.								7.
			° ′ ″	° ′ ″			″	″	″
1008	Cape 1850	2	— 85 54 57·91	— 85 55 53·45	1851·53	0·5	53·45	53·04	+ 0·41
235	Cape 1860	6	— 85 55 12·55	52·43	56·21	4·3	52·43	53·02	— 0·59
301	Melbourne 1870	41	— 85 55 26·23	52·71	67·8	7·9	52·71	52·98	— 0·27
7601	Cordoba 1875	14	— 85 55 33·29	53·93	74·57	3·9	53·93	52·95	+ 0·98
2881	Cape 1880	4	— 85 55 38·45	53·83	75·72	3·2	53·83	52·94	+ 0·89
349	Melbourne 1880	43	— 85 55 37·62	53·00	75·73	12·0	53·00	52·94	+ 0·06
32	Cape, App. I.....1885	5	— 85 55 42·14	52·80	82·67	3·8	52·80	52·92	— 0·12
...	Cape 1895	22	— 85 55 49·60	52·58	95·76	9·5	52·58	52·87	— 0·29
				° ′ ″	″				
	1900. δ =			— 85 55 52·85	± 0·004 (t — 1900).				
	Probable Error			± 0·27	± 0·011 (t — 1900).				
	LACAILLE 3274.—Declination.								8.
			° ′ ″	° ′ ″			″	″	″
356	Melbourne 1870	69	— 86 48 28·52	— 86 52 11·22	1867·5	8·9	11·22	11·61	— 0·39
9770	Cordoba 1875	262	— 86 49 8·04	12·06	76·79	7·9	12·00	11·54	+ 0·46
3713	Cape 1880	19	— 86 49 46·11	11·95	75·13	8·9	11·95	11·56	+ 0·39
416	Melbourne 1880	41	— 86 49 45·67	11·51	76·05	11·8	11·51	11·55	— 0·04
35	Cape, App. I.....1885	6	— 86 50 22·38	10·76	86·28	4·3	10·76	11·48	— 0·72
...	Cape 1895	27	— 86 51 35·97	11·43	95·35	10·3	11·43	11·41	+ 0·02
				° ′ ″	″				
	1900. δ =			— 86 52 11·38	+ 0·007 (t — 1900).				
	Probable Error			± 0·29	± 0·013 (t — 1900).				
	A OCTANTIS.—Declination.								9.
			° ′ ″	° ′ ″			″	″	″
5	Henderson 1833	56	— 88 21 56·9	— 88 34 25·54	1833·	12·8	25·54	25·61	— 0·07
1061	Cape 1840	96	— 88 23 24·7c	25·78	36·44	7·1	25·78	25·58	+ 0·20
324	Cape 1860	24	— 88 27 23·32	25·30	57·75	10·0	25·30	25·35	— 0·05
...	Cape 1865	21	— 88 28 20·41	25·35	63·12	9·3	25·35	25·30	+ 0·05
408	Melbourne 1870	66	— 88 29 15·92	24·96	67·7	8·9	24·96	25·25	— 0·29
11013	Cordoba 1875	10	— 88 30 11·20	25·50	76·46	3·2	25·50	25·16	+ 0·34
4191	Cape 1880	113	— 88 31 4·50	25·34	74·37	14·4	25·34	25·18	+ 0·16
476	Melbourne 1880	40	— 88 31 4·09	24·93	75·95	11·8	24·93	25·17	— 0·24
37	Cape, App. I.....1885	8	— 88 31 56·97	25·59	85·81	5·3	25·59	25·07	+ 0·52
...	Cape 1895	27	— 88 33 36·67	24·83	95·40	10·3	24·83	24·97	— 0·14
				° ′ ″	″				
	1900. δ =			— 88 34 24·92	+ 0·010 (t — 1900).				
	Probable Error			± 0·10	± 0·003 (t — 1900).				

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									$\Delta\alpha$.	$\Delta\alpha \cos\delta$.
10.			ζ OCTANTIS.—Right Ascension.							
			h m s	h m s			s	s	s	s
1165	Cape 1840	3	9 18 37·91	9 11 20·79	1836·30	1·3	20·81	21·20	+ 0·39	+ 0·034
1695	Cape 1850	1	9 17 27·27	18·80	51·33	0·2	18·83	19·54	+ 0·71	+ ·061
377	Cape 1860	10	9 16 16·58	18·76	56·33	6·3	18·79	18·99	+ 0·20	+ ·017
467	Melbourne.....1870	39	9 15 3·37	17·69	68·1	7·8	17·72	17·68	— 0·04	— ·003
12688	Cordoba 1875	259	9 14 26·11	17·07	76·80	3·9	17·07	16·72	— 0·35	— ·029
4967	Cape 1880	5	9 13 49·54	17·52	71·48	3·8	17·55	17·31	— 0·24	— ·020
543	Melbourne.....1880	39	9 13 49·13	17·11	74·13	11·7	17·13	17·02	— 0·11	— ·009
41	Cape, App. I.....1885	38	9 13 10·52	15·90	84·76	11·6	15·90	15·84	— 0·06	— ·005
...	Cape 1895	31	9 11 53·06	14·45	95·39	10·9	14·45	14·67	+ 0·22	+ ·018
							h m s	s		
							1900. α = 9 11 14·16	— 0·1105 (t — 1900).		
							Probable Error	± 0·09 ± 0·0035 (t — 1900).		
11.			LACAILLE 4510.—Right Ascension.							
			h m s	h m s			s	s	s	s
1345	Cape 1840	3	10 39 40·30	10 36 55·51	1837·84	1·2	55·53	55·57	+ 0·04	+ 0·003
14661	Cordoba 1875	4	10 38 8·17	55·19	75·31	0·8	55·19	55·28	+ 0·09	+ ·007
5911	Cape 1880	9	10 37 54·31	55·42	71·45	5·8	55·45	55·31	— 0·14	— ·011
625	Melbourne.....1880	23	10 37 54·17	55·28	75·84	9·7	55·30	55·28	— 0·02	— ·002
45	Cape, App. I.....1885	20	10 37 39·60	55·04	84·30	9·1	55·04	55·21	+ 0·17	+ ·013
...	Cape 1895	28	10 37 10·31	55·20	95·52	10·5	55·20	55·12	— 0·08	— ·006
							h m s	s		
							1900. α = 10 36 55·09	— 0·0078 (t — 1900).		
							Probable Error	± 0·07 ± 0·0031 (t — 1900).		
12.			η OCTANTIS.—Right Ascension.							
			h m s	h m s			s	s	s	s
2015	Cape.....1850	3	11 0 12·52	11 0 4·03	1851·35	0·6	4·06	3·66	— 0·40	— 0·043
445	Cape.....1860	5	11 0 10·69	3·27	56·35	3·8	3·30	3·39	+ 0·09	+ ·010
552	Melbourne.....1870	45	11 0 8·75	2·72	67·8	8·1	2·75	2·78	+ 0·03	+ ·003
15189	Cordoba.....1875	171	11 0 7·39	2·16	76·97	3·8	2·16	2·24	+ 0·08	+ ·008
6146	Cape.....1880	3	11 0 6·94	2·61	73·21	2·5	2·64	2·45	— 0·19	— ·020
645	Melbourne.....1880	41	11 0 6·68	2·35	75·22	11·8	2·37	2·34	— 0·03	— ·003
48	Cape, App. I.....1885	16	11 0 5·14	1·76	84·93	8·3	1·76	1·80	+ 0·04	+ ·004
...	Cape.....1895	27	11 0 2·43	1·22	95·50	10·3	1·22	1·21	— 0·01	— ·001
							h m s	s		
							1900. α = 11 0 0·96	— 0·0555 (t — 1900).		
							Probable Error	± 0·04 ± 0·0017 (t — 1900).		

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	ζ Octantis.—Declination.								10.
			° ′ ″	° ′ ″			″	″	″
1165	Cape 1840	2	— 85 0 44·10	— 85 15 48·96	1840·38	0·9	48·96	49·52	— 0·56
1695	Cape 1850	0	.....	.....	...	...	...	...	...
377	Cape 1860	10	— 85 5 48·89	49·27	56·33	6·3	49·27	48·79	+ 0·48
467	Melbourne.....1870	45	— 85 8 18·71	47·89	67·6	8·1	47·89	48·28	— 0·39
12688	Cordoba 1875	205	— 85 9 33·86	47·70	76·74	7·7	47·70	47·87	— 0·17
4967	Cape 1880	16	— 85 10 49·55	48·25	75·99	8·3	48·25	47·90	+ 0·35
543	Melbourne.....1880	49	— 85 10 49·09	47·79	75·24	12·4	47·79	47·94	— 0·15
41	Cape, App. I.....1885	14	— 85 12 3·69	47·43	86·08	7·7	47·43	47·44	— 0·01
...	Cape 1895	32	— 85 14 32·72	47·10	95·40	11·0	47·10	47·02	+ 0·08
				° ′ ″	″				
	1900. δ =			— 85 15 46·81	+ 0·045 (t — 1900).				
	Probable Error			± 0·16	± 0·006 (t — 1900).				
	Lacaille 4510.—Declination.								11.
			° ′ ″	° ′ ″			″	″	″
1345	Cape 1840	2	— 85 15 30·40	— 85 34 18·16	1837·86	0·9	18·16	20·23	— 2·07
14661	Cordoba 1875	4	— 85 26 31·40	20·64	75·31	1·6	20·64	20·89	— 0·25
5911	Cape 1880	9	— 85 28 6·00	21·32	71·45	5·8	21·32	20·82	+ 0·50
625	Melbourne.....1880	31	— 85 28 5·75	21·07	77·25	10·9	21·07	20·92	+ 0·15
45	Cape, App. I.....1885	8	— 85 29 39·79	21·21	85·93	5·3	21·21	21·07	+ 0·14
...	Cape 1895	39	— 85 32 47·21	20·97	95·54	11·7	20·97	21·24	— 0·27
				° ′ ″	″				
	1900. δ =			— 85 34 21·32	— 0·018 (t — 1900).				
	Probable Error			± 0·26	± 0·013 (t — 1900).				
	η Octantis.—Declination.								12.
			° ′ ″	° ′ ″			″	″	″
2015	Cape 1850	0	.....	.....	...	...	...	...	...
445	Cape.....1860	5	— 83 50 26·51	— 84 3 21·47	1856·35	3·8	21·47	21·36	+ 0·11
552	Melbourne.....1870	42	— 83 53 40·33	21·51	67·8	7·9	21·51	21·36	+ 0·15
15189	Cordoba.....1875	140	— 83 55 16·75	21·05	76·88	7·4	21·05	21·36	— 0·31
6146	Cape.....1880	3	— 83 56 54·08	21·52	73·21	2·5	21·52	21·36	+ 0·16
645	Melbourne.....1880	44	— 83 56 53·82	21·26	75·76	12·0	21·26	21·36	— 0·10
48	Cape. App. I.....1885	14	— 83 58 30·86	21·42	85·01	7·7	21·42	21·36	+ 0·06
...	Cape.....1895	36	— 84 1 44·59	21·43	95·53	11·4	21·43	21·36	+ 0·07
				° ′ ″	″				
	1900. δ =			— 84 3 21·36	± 0·000 (t — 1900).				
	Probable Error			± 0·09	± 0·004 (t — 1900).				

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									Δα.	Δα cos δ.
13.			ι Octantis.—Right Ascension.							
			h m s	h m s			s	s	s	s
1652	Cape.....1840	0	.....	.....	...	...	...	...	...	...
2281	Cape.....1850	1	12 39 46·05	12 44 25·16	1852·40	0·2	25·19	25·21	+ 0·02	+ 0·002
507	Cape.....1860	5	12 40 40·49	25·36	56·41	3·8	25·39	25·36	— 0·03	— ·003
637	Melbourne.....1870	39	12 41 35·82	25·68	67·3	7·8	25·71	25·74	+ 0·03	+ ·003
17440	Cordoba.....1875	200	12 42 4·04	26·11	76·72	3·9	26·11	26·07	— 0·04	— ·004
7073	Cape.....1880	4	12 42 31·93	25·99	71·50	3·2	26·02	25·89	— 0·13	— ·013
718	Melbourne.....1880	30	12 42 31·93	25·99	75·98	10·8	26·01	26·05	+ 0·04	+ ·004
56	Cape, App. I.....1885	18	12 43 0·50	26·36	85·40	8·7	26·36	26·38	+ 0·02	+ ·002
...	Cape.....1895	26	12 43 57·93	26·76	95·51	10·2	26·76	26·73	— 0·03	— ·003
				h m s	s					
			1900. α =	12 44 26·89	+ 0·0352 (t — 1900).					
			Probable Error	± 0·03	± 0·0011 (t — 1900).					
14.			κ Octantis.—Right Ascension.							
			h m s	h m s			s	s	s	s
1741	Cape.....1840	0	.....	.....	...	...	...	...	...	...
2388	Cape.....1850	7	13 17 38·59	13 24 45·10	1852·48	1·2	45·13	45·71	+ 0·58	+ 0·051
536	Cape.....1860	28	13 19 1·07	45·26	56·64	10·5	45·29	45·39	+ 0·10	+ ·009
673	Melbourne.....1870	56	13 20 24·17	44·55	68·0	8·5	44·58	44·51	— 0·07	— ·006
18321	Cordoba.....1875	175	13 21 6·08	44·01	76·72	3·8	44·01	43·84	— 0·17	— ·014
7387	Cape.....1880	9	13 21 49·30	44·43	71·52	5·8	44·46	44·24	— 0·22	— ·019
739	Melbourne.....1880	41	13 21 48·93	44·06	75·33	11·8	44·08	43·95	— 0·13	— ·011
59	Cape, App. I.....1885	34	13 22 31·08	42·99	85·91	11·2	42·99	43·14	+ 0·15	+ ·012
...	Cape.....1895	29	13 23 57·98	42·34	95·53	10·6	42·34	42·40	+ 0·06	+ ·005
				h m s	s					
			1900. α =	13 24 42·05	— 0·0770 (t — 1900).					
			Probable Error	± 0·09	± 0·0032 (t — 1900).					
15.			ζ Octantis.—Right Ascension.							
			h m s	h m s			s	s	s	s
327	Johnson.....1830	3	14 13 33·60	14 39 11·17	1830·	1·2	11·47	12·84	+ 1·37	+ 0·056
6	Henderson.....1833	25	14 14 33·00	12·38	33·	10·1	12·44	12·27	— 0·17	— ·007
1869	Cape.....1840	64	14 16 50·99	11·11	36·76	6·6	11·09	11·57	+ 0·48	+ ·020
2571	Cape.....1850	17	14 20 13·38	8·86	52·54	2·1	8·84	8·65	— 0·19	— ·008
576	Cape.....1860	81	14 23 43·85	7·65	58·79	13·8	7·67	7·47	— 0·20	— ·008
...	Cape.....1865	43	14 25 31·50	6·70	63·47	12·0	6·73	6·60	— 0·13	— ·005
737	Melbourne.....1870	59	14 27 21·18	5·89	67·8	8·6	5·93	5·80	— 0·13	— ·005
19776	Cordoba.....1875	6	14 29 11·97	4·22	74·44	4·3	4·29	4·57	+ 0·28	+ ·011
7960	Cape.....1880	69	14 31 6·43	4·40	74·56	13·4	4·43	4·53	+ 0·10	+ ·004
783	Melbourne.....1880	47	14 31 6·48	4·45	75·31	12·2	4·47	4·40	— 0·07	— ·003
65	Cape, App. I.....1885	28	14 33 0·66	2·25	85·80	10·5	2·25	2·44	+ 0·19	+ ·008
...	Cape.....1895	26	14 36 57·87	0·53	95·61	10·2	0·53	0·62	+ 0·09	+ ·004
				h m s	s					
			1900. α =	14 38 59·80	— 0·1863 (t — 1900).					
			Probable Error	± 0·11	± 0·0028 (t — 1900).					

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				ι Octantis.—Declination.					13.
			° ′ ″	° ′ ″			″	″	″
1652	Cape.....1840	3	— 84 15 5·80	— 84 34 49·34	1840·48	1·2	49·34	50·31	— 0·97
2281	Cape.....1850	2	— 84 18 23·42	49·30	50·89	0·5	49·30	50·02	— 0·72
507	Cape.....1860	5	— 84 21 41·53	49·93	56·41	3·8	49·93	49·86	+ 0·07
637	Melbourne.....1870	44	— 84 24 58·70	49·76	67·5	8·0	49·76	49·54	+ 0·22
17440	Cordoba.....1875	151	— 84 26 36·76	49·20	76·57	7·4	49·20	49·28	— 0·08
7073	Cape.....1880	5	— 84 28 15·34	49·22	72·36	3·8	49·22	49·40	— 0·18
718	Melbourne.....1880	39	— 84 28 15·77	49·65	76·43	11·7	49·65	49·28	+ 0·37
56	Cape, App. I.....1885	16	— 84 29 53·22	48·56	85·52	8·3	48·56	49·02	— 0·46
...	Cape.....1895	29	— 84 33 10·34	48·74	95·54	10·7	48·74	48·73	+ 0·01
				° ′ ″ ″					
			1900. δ =	— 84 34 48·60	+ 0·029 (t — 1900).				
			Probable Error	± 0·16	± 0·006 (t — 1900).				
				κ Octantis.—Declination.					14.
			° ′ ″	° ′ ″			″	″	″
1741	Cape.....1840	2	— 84 57 32·70	— 85 16 22·62	1840·49	0·9	22·62	23·66	— 1·04
2388	Cape.....1850	0	.....	.....	...	...	...	...	...
536	Cape.....1860	28	— 85 3 52·36	23·90	56·64	10·5	23·90	23·95	— 0·05
673	Melbourne.....1870	45	— 85 7 1·18	24·18	68·0	8·1	24·18	24·16	+ 0·02
18321	Cordoba.....1875	144	— 85 8 35·23	24·13	76·67	7·4	24·13	24·32	— 0·19
7387	Cape.....1880	12	— 85 10 9·58	24·48	72·86	7·1	24·48	24·25	+ 0·23
739	Melbourne.....1880	50	— 85 10 9·67	24·57	76·28	12·5	24·57	24·31	+ 0·26
59	Cape, App. I.....1885	24	— 85 11 43·40	24·40	86·03	10·0	24·40	24·49	— 0·09
...	Cape.....1895	33	— 85 14 51·00	24·54	95·54	11·1	24·54	24·66	— 0·12
				° ′ ″ ″					
			1900. δ =	— 85 16 24·74	— 0·018 (t — 1900).				
			Probable Error	± 0·12	± 0·005 (t — 1900).				
				τ Octantis.—Declination.					15.
			° ′ ″	° ′ ″			″	″	″
327	Johnson.....1830	3	— 87 25 35·9	— 87 44 24·38	1830·	1·2	24·38	26·37	— 1·99
6	Henderson.....1833	59	— 87 26 28·4	26·64	33·	12·9	26·64	26·55	+ 0·09
1869	Cape.....1840	136	— 87 28 25·24	27·08	36·61	7·3	27·08	26·77	+ 0·31
2571	Cape.....1850	0	.....	.....	...	...	...	...	...
576	Cape.....1860	78	— 87 30 54·58	28·22	58·68	13·8	28·22	28·12	+ 0·10
...	Cape.....1865	46	— 87 35 15·78	28·45	63·57	12·2	28·45	28·42	+ 0·03
737	Melbourne.....1870	63	— 87 36 36·32	28·54	67·8	8·7	28·54	28·68	— 0·14
19776	Cordoba.....1875	6	— 87 37 55·70	27·94	74·44	2·2	27·94	29·08	— 1·14
7960	Cape.....1880	128	— 87 39 16·36	29·12	74·45	14·6	29·12	29·08	+ 0·04
783	Melbourne.....1880	38	— 87 39 16·29	29·05	75·68	11·6	29·05	29·16	— 0·11
65	Cape, App. I.....1885	20	— 87 40 36·06	29·82	85·57	9·1	29·82	29·77	+ 0·05
...	Cape.....1895	28	— 87 43 13·19	30·55	95·61	10·5	30·55	30·38	+ 0·17
				° ′ ″ ″					
			1900. δ =	— 87 44 30·65	— 0·061 (t — 1900).				
			Probable Error	± 0·14	± 0·004 (t — 1900).				

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									$\Delta\alpha$.	$\Delta\alpha \cos\delta$.
16.			ρ OCTANTIS.—Right Ascension.							
			h m s	h m s			s	s	s	s
2007	Cape 1840	3	15 7 28·56	15 20 6·23	1836·60	1·2	6·25	6·28	+ 0·03	+ 0·003
2727	Cape 1850	11	15 9 32·57	7·38	52·61	1·7	7·41	7·58	+ 0·17	+ ·018
611	Cape 1860	36	15 11 37·41	8·03	58·77	11·4	8·06	8·08	+ 0·02	+ ·002
784	Melbourne 1870	62	15 13 43·72	8·75	67·4	8·7	8·78	8·78	0·00	·000
20818	Cordoba 1875	272	15 14 47·83	9·57	76·49	4·0	9·57	9·52	— 0·05	— ·005
8363	Cape 1880	3	15 15 50·89	8·97	73·50	2·5	9·00	9·28	+ 0·28	+ ·029
816	Melbourne 1880	45	15 15 51·49	9·57	75·64	12·1	9·59	9·45	— 0·14	— ·014
68	Cape, App. I.....1885	23	15 16 56·26	10·34	85·47	9·7	10·34	10·26	— 0·08	— ·008
...	Cape 1895	30	15 19 5·94	10·98	95·60	10·8	10·98	11·08	+ 0·10	+ ·010
							h m s	s		
					1900.	α =	15 20 11·44	+ 0·0814 (t — 1900).		
					Probable Error	... ...	± 0·05	± 0·0019 (t — 1900).		
17.			LACAILLE 6545 (Brisbane 5607).—Right Ascension.							
			h m s	h m s			s	s	s	s
388	Johnson 1830	8	15 59 39·70	16 23 34·25	1830·	2·6	34·13	34·68	+ 0·55	+ 0·038
2153	Cape 1840	5	16 2 57·53	34·55	38·82	1·9	34·53	34·65	+ 0·12	+ ·008
2980	Cape 1850	12	16 6 17·27	34·27	51·03	1·8	34·26	34·60	+ 0·34	+ ·024
674	Cape 1860	22	16 9 40·28	34·71	58·44	9·5	34·77	34·57	— 0·20	— ·014
825	Melbourne 1870	70	16 13 5·10	34·58	68·2	9·0	34·61	34·53	— 0·08	— ·006
22180	Cordoba 1875	8	16 14 48·51	34·58	76·56	1·3	34·59	34·50	— 0·09	— ·006
8914	Cape 1880	13	16 16 32·50	34·58	73·12	7·4	34·61	34·52	— 0·09	— ·006
850	Melbourne 1880	50	16 16 32·52	34·60	76·61	12·5	34·62	34·50	— 0·12	— ·008
73	Cape, App. I.....1885	29	16 18 17·08	34·51	86·60	10·6	34·51	34·46	— 0·05	— ·003
...	Cape 1895	26	16 21 47·74	34·15	95·66	10·2	34·15	34·43	+ 0·28	+ ·019
							h m s	s		
					1900.	α =	16 23 34·41	— 0·0039 (t — 1900).		
					Probable Error	... ...	± 0·09	± 0·0028 (t — 1900).		
18.			χ OCTANTIS (Brisbane 6058).—Right Ascension.							
			h m s	h m s			s	s	s	s
433	Johnson 1830	15	17 14 54·90	17 56 11·55	1830·	4·0	11·51	12·29	+ 0·78	+ 0·047
3332	Cape 1850	2	17 26 32·18	11·24	50·60	0·5	11·18	9·95	— 1·23	— ·074
766	Cape 1860	16	17 32 23·00	9·37	57·06	8·3	9·38	9·21	— 0·17	— ·010
895	Melbourne 1870	49	17 38 16·48	8·24	48·1	8·3	8·25	7·96	— 0·29	— ·018
24176	Cordoba 1875	241	17 41 13·75	7·59	76·50	3·9	7·59	7·01	— 0·58	— ·035
9725	Cape 1880	10	17 44 11·98	7·50	74·09	6·3	7·53	7·29	— 0·24	— ·014
906	Melbourne 1880	30	17 44 11·51	7·03	75·69	10·8	7·05	7·10	+ 0·05	+ ·003
80	Cape, App. I.....1885	32	17 47 8·80	5·76	87·16	11·0	5·79	5·79	0·00	·000
...	Cape 1895	22	17 53 5·25	4·41	95·74	9·5	4·39	4·83	+ 0·44	+ ·027
							h m s	s		
					1900.	α =	17 56 4·34	— 0·1136 (t — 1900).		
					Probable Error	... ...	± 0·16	± 0·0053 (t — 1900).		

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				ρ OCTANTIS.—Declination.					16.
			° ′ ″	° ′ ″			″	″	″
2007	Cape 1840	1	— 83 54 39·80	— 84 7 58·14	1840·52	0·5	58·14	59·91	— 1·77
2727	Cape 1850	0	.....	.....	...	...	...	...	...
611	Cape 1860	37	— 83 59 11·75	58·41	58·80	11·5	58·41	58·41	0·00
784	Melbourne 1870	52	— 84 1 24·89	57·75	67·5	8·4	57·75	57·70	+ 0·05
20818	Cordoba 1875	217	— 84 2 30·42	56·90	76·33	7·8	56·90	56·98	— 0·08
8363	Cape 1880	4	— 84 3 37·10	57·58	73·16	3·2	57·58	57·23	+ 0·35
816	Melbourne 1880	52	— 84 3 36·60	57·08	76·38	12·6	57·08	56·97	+ 0·11
68	Cape, App. I.....1885	20	— 84 4 41·45	56·25	85·41	9·1	56·25	56·23	+ 0·02
...	Cape 1895	31	— 84 6 50·72	55·28	95·61	10·9	55·28	55·40	— 0·12
				° ′ ″	″				
			1900. δ =	— 84 7 55·04	+ 0·082 (t — 1900).				
			Probable Error	± 0·11	± 0·004 (t — 1900).				
				LACAILLE 6545 (Brisbane 5607).—Declination.					17.
			° ′ ″	° ′ ″			″	″	″
388	Johnson 1830	10	— 86 0 4·7	— 86 10 44·78	1830·	3·2	44·78	43·67	+ 1·11
2153	Cape 1840	0	.....	.....	...	...	...	...	...
2980	Cape 1850	3	— 86 3 20·06	44·08	50·57	0·6	44·08	43·38	+ 0·70
674	Cape 1860	22	— 86 4 52·81	42·61	58·44	9·5	42·61	43·26	— 0·65
825	Melbourne 1870	78	— 86 6 24·77	43·05	67·2	9·2	43·05	43·14	— 0·09
22180	Cordoba 1875	8	— 86 7 9·10	42·60	76·56	2·7	42·60	43·00	— 0·40
8914	Cape 1880	15	— 86 7 53·84	43·26	73·89	8·0	43·26	43·04	+ 0·22
850	Melbourne 1880	52	— 86 7 53·60	43·02	76·07	12·6	43·02	43·01	+ 0·01
73	Cape, App. I.....1885	18	— 86 8 36·66	42·68	86·64	8·7	42·68	42·86	— 0·18
...	Cape 1895	28	— 86 10 1·82	43·12	95·66	10·5	43·12	42·73	+ 0·39
				° ′ ″	″				
			1900. δ =	— 86 10 42·67	+ 0·014 (t — 1900).				
			Probable Error	± 0·21	± 0·007 (t — 1900).				
				χ Octantis (Brisbane 6058).—Declination.					18.
			° ′ ″	° ′ ″			″	″	″
433	Johnson 1830	15	— 87 37 12·8	— 87 39 42·78	1830·	4·0	42·78	42·70	+ 0·08
3332	Cape 1850	6	— 87 38 24·12	45·72	50·63	1·1	45·72	45·25	+ 0·47
766	Cape 1860	25	— 87 38 51·20	46·30	57·77	10·1	46·30	46·15	+ 0·15
895	Melbourne 1870	74	— 87 39 13·89	47·49	67·5	9·1	47·49	47·35	+ 0·14
24176	Cordoba 1875	212	— 87 39 23·56	48·34	76·34	7·8	48·34	48·44	— 0·10
9725	Cape 1880	18	— 87 39 31·03	48·25	74·73	8·7	48·25	48·24	+ 0·01
906	Melbourne 1880	53	— 87 39 30·74	47·96	75·19	12·7	47·96	48·30	— 0·34
80	Cape, App. I.....1885	6	— 87 39 38·27	49·27	85·71	4·3	49·27	49·61	— 0·34
...	Cape 1895	24	— 87 39 48·82	51·20	95·75	10·0	51·20	50·85	+ 0·35
				° ′ ″	″				
			1900. δ =	— 87 39 51·38	— 0·124 (t — 1900).				
			Probable Error	± 0·13	± 0·004 (t — 1900).				

Number in Catalogue.	Catalogue and Equinox.	Number of Observations.	Catalogue R.A. without Proper Motion.	Preliminary Reduction of Observed R.A. to 1900.	Epoch of Observation.	Weight.	Observed Seconds of R.A. finally Corrected to 1900.	Computed Seconds of R.A. from final Results.	C — O.	
									$\Delta\alpha$.	$\Delta\alpha \cos\delta$.
19.			σ OCTANTIS.—Right Ascension.							
			h m s	h m s			s	s	s	s
423	Johnson.....1830	13	16 55 6·76	18 59 35·43	1830·	3·7	35·18	37·37	+ 2·19	+ 0·029
3	Henderson.....1833	55	17 0 15·43	37·95	33·	12·7	39·03	37·63	— 1·40	— ·018
2302	Cape 1840	35	17 12 19·27	37·38	37·58	5·7	37·58	38·01	+ 0·43	+ ·006
3348	Cape 1850	7	17 30 2·75	37·71	52·70	1·2	38·27	39·29	+ 1·02	+ ·013
784	Cape 1860	27	17 48 7·75	39·84	58·05	10·3	39·61	39·73	+ 0·12	+ ·001
...	Cape 1865	18	17 57 12·28	38·46	64·63	8·7	38·49	40·29	+ 1·80	+ ·024
922	Melbourne.....1870	27	18 6 22·12	41·69	68·1	6·9	41·72	40·59	— 1·13	— ·015
25049	Cordoba 1875	146	18 15 27·82	42·02	77·09	3·7	42·09	41·35	— 0·74	— ·010
10085	Cape 1880	56	18 24 29·25	41·14	75·02	12·8	41·16	41·17	+ 0·01	·000
928	Melbourne.....1880	35	18 24 29·42	41·31	76·87	11·3	41·32	41·33	+ 0·01	·000
82	Cape, App. I. 1885	41	18 33 28·65	42·10	86·41	11·8	42·27	42·13	— 0·14	— ·002
...	Cape 1895	33	18 51 6·74	43·14	95·26	11·1	43·15	42·88	— 0·27	— ·004
				h m s	s					
			1900. α =	18 59 43·28	+ 0·0844 (t — 1900).					
			Probable Error	± 0·38	± 0·0097 (t — 1900).					
20.			LACAILLE 8094.—Right Ascension.							
			h m s	h m s			s	s	s	s
3869	Cape 1850	2	19 28 3·25	19 37 35·76	1850·59	0·5	35·79	36·82	+ 1·03	+ 0·149
896	Cape 1860	5	19 29 59·84	36·78	56·11	3·8	36·81	36·78	— 0·03	— ·004
995	Melbourne.....1870	22	19 31 54·75	36·65	66·6	6·3	36·68	36·70	+ 0·02	+ ·003
26929	Cordoba 1875	6	19 32 51·94	36·55	74·58	1·1	36·55	36·64	+ 0·09	+ ·013
10611	Cape 1880	3	19 33 49·26	36·67	72·69	2·5	36·70	36·65	— 0·05	— ·007
967	Melbourne.....1880	19	19 33 49·25	36·66	76·00	8·9	36·68	36·62	— 0·06	— ·009
85	Cape, App. I.....1885	20	19 34 46·29	36·65	85·37	9·1	36·65	36·55	— 0·10	— ·014
...	Cape 1895	24	19 36 39·73	36·38	95·37	10·0	36·38	36·48	+ 0·10	+ ·014
				h m s	s					
			1900. α =	19 37 36·44	— 0·0077 (t — 1900).					
			Probable Error	± 0·07	± 0·0029 (t — 1900).					
21.			LACAILLE 8257.—Right Ascension.							
			h m s	h m s			s	s	s	s
27838	Cordoba 1875	6	20 12 26·12	20 18 46·93	1876·49	1·1	46·93	46·75	— 0·18	— 0·016
10885	Cape 1880	7	20 13 42·61	46·45	73·46	4·8	46·48	46·66	+ 0·18	+ ·016
87	Cape, App. I.....1885	23	20 14 59·87	47·10	84·33	9·7	47·10	46·96	— 0·14	— ·013
...	Cape 1895	27	20 17 31·85	47·19	95·41	10·3	47·19	47·26	+ 0·07	+ ·006
				h s	s					
			1900. α =	20 18 47·39	+ 0·02 — 1900).					
			Probable Error	± 0·12	± 0·0074 (t — 1900).					

Number in Catalogue.	Catalogue and Equinox.	Number of Observations.	Catalogue Dec. without Proper Motion.	Preliminary Reduction of Observed Dec. to 1900.	Epoch of Observation.	Weight.	Observed Seconds of Dec. finally Corrected to 1900.	Computed Seconds of Dec. from final Results.	C — O.
				σ OCTANTIS.—Declination.					19.
			° ′ ″	° ′ ″			″	″	″
423	Johnson 1830	15	— 89 14 59·4	— 89 15 16·22	1830·	4·0	16·22	16·13	+ 0·09
3	Henderson 1833	75	— 89 15 15·4	15·74	33·	13·7	15·74	16·15	— 0·41
2302	Cape 1840	155	— 89 15 48·27	16·09	37·09	7·5	16·09	16·17	— 0·08
3348	Cape 1850	0	.....	.....	...	...	...	...	...
784	Cape 1860	86	— 89 16 40·89	16·43	57·52	14·0	16·43	16·26	+ 0·17
...	Cape 1865	36	— 89 16 44·37	16·60	63·47	11·4	16·60	16·29	+ 0·31
922	Melbourne.....1870	64	— 89 16 43·29	16·31	67·9	8·8	16·31	16·31	0·00
25049	Cordoba 1875	139	— 89 16 38·48	16·28	77·06	7·4	16·28	16·35	— 0·07
10085	Cape 1880	170	— 89 16 29·81	16·35	74·34	15·0	16·35	16·33	+ 0·02
928	Melbourne.....1880	70	— 89 16 30·03	16·57	75·09	13·5	16·57	16·34	+ 0·23
82	Cape, App. I.....1885	28	— 89 16 16·91	16·09	86·68	10·5	16·09	16·39	— 0·30
...	Cape 1895	29	— 89 15 40·39	16·39	95·27	10·7	16·39	16·43	— 0·04
				° ′ ″	″				
			1900. δ =	— 89 15 16·45	— 0·0045 (t — 1900).				
			Probable Error	± 0·10	± 0·0027 (t — 1900).				
				LACAILLE 8094.—Declination.					20.
			° ′ ″	° ′ ″			″	″	″
3869	Cape 1850	2	— 81 42 37·03	— 81 36 1·87	1850·61	0·5	1·87	0·87	+ 1·00
896	Cape 1860	5	— 81 41 20·65	1·39	56·11	3·8	1·39	0·83	+ 0·56
995	Melbourne 1870	11	— 81 40 1·89	0·15	67·6	4·5	0·15	0·75	— 0·60
26929	Cordoba 1875	6	— 81 39 24·13	1·75	74·58	2·2	1·75	0·70	+ 1·05
10611	Cape 1880	3	— 81 38 43·52	0·84	72·69	2·5	0·84	0·71	+ 0·13
967	Melbourne.....1880	16	— 81 38 43·22	0·54	76·89	8·3	0·54	0·68	— 0·14
85	Cape, App. I.....1885	6	— 81 38 2·88	0·30	86·29	4·3	0·30	0·62	— 0·32
...	Cape 1895	24	— 81 36 42·03	0·79	95·37	10·0	0·79	0·55	+ 0·24
				° ′ ″	″				
			1900. δ =	— 81 36 0·52	+ 0·007 (t — 1900).				
			Probable Error	± 0·22	± 0·009 (t — 1900).				
				LACAILLE 8257.—Declination.					21.
			° ′ ″	° ′ ″			″	″	″
27838	Cordoba 1875	6	— 84 49 29·00	— 84 44 49·36	1876·49	2·2	49·36	49·15	+ 0·21
10885	Cape 1880	8	— 84 48 33·97	49·33	73·87	5·3	49·33	49·22	+ 0·11
87	Cape, App. I. 1885	8	— 84 47 37·61	48·43	85·82	5·3	48·43	48·87	— 0·44
...	Cape 1895	28	— 84 45 45·54	48·70	95·40	10·5	48·70	48·59	+ 0·11
				° ′ ″	″				
			1900. δ =	— 84 44 48·45	+ 0·030 (t — 1900).				
			Probable Error	± 0·20	± 0·013 (t — 1900).				

Number in Catalogue.	Catalogue and Equinox.	Number of Observations.	Catalogue R.A. without Proper Motion.	Preliminary Reduction of Observed R.A. to 1900.	Epoch of Observation.	Weight.	Observed Seconds of R.A. finally Corrected to 1900.	Computed Seconds of R.A. from final Results.	C — O.	
									Δα.	Δα cos δ.
22.	**B Octantis.—Right Ascension.**									
			h m s	h m s			s	s	s	s
496	Johnson 1830	11	19 26 16·40	21 37 43·55	1830·	3·3	40·69	39·34	— 1·35	— 0·015
1	Henderson 1833	65	19 34 30·38	37·67	33·	13·2	39·29	39·30	+ 0·01	·000
2590	Cape 1840	36	19 52 46·87	39·39	38·77	5·7	39·12	39·23	+ 0·11	+ ·001
4030	Cape 1850	1	20 16 25·12	37·57	52·71	0·3	36·75	39·07	+ 2·32	+ ·025
982	Cape 1860	50	20 37 20·88	38·98	59·36	12·5	39·05	38·99	— 0·06	·000
...	Cape 1865	42	20 46 46·80	38·06	63·14	11·9	38·09	38·95	+ 0·86	+ ·009
1067	Melbourne 1870	32	20 55 36·90	38·97	68·5	7·3	38·90	38·88	— 0·02	·000
29042	Cordoba 1875	96	21 3 52·27	39·50	78·02	3·6	39·66	38·77	— 0·89	— ·010
11301	Cape 1880	34	21 11 32·51	38·26	73·90	11·2	38·20	38·82	+ 0·62	+ ·007
1045	Melbourne 1880	44	21 11 33·94	39·69	75·15	12·0	39·62	38·80	— 0·82	— ·009
91	Cape, App. I.....1885	39	21 18 44·20	38·25	84·60	11·7	38·26	38·69	+ 0·43	+ ·005
...	Cape 1895	29	21 31 45·62	38·90	95·37	10·6	38·91	38·56	— 0·35	— ·004
				h m s	s					
			1900. α =	21 37 38·51	— 0·0118 (t — 1900).					
			Probable Error	± 0·25	± 0·0063 (t — 1900).					
23.	**C Octantis.—Right Ascension.**									
			h m s	h m s			s	s	s	s
549	Johnson 1830	14	21 56 10·00	22 12 37·53	1830·	3·9	37·51	38·01	+ 0·50	+ 0·028
7	Henderson 1833	32	21 56 56·59	37·83	33·	11·0	37·89	37·88	— 0·01	— ·001
2753	Cape 1840	67	21 58 42·55	37·56	37·46	6·7	37·58	37·69	+ 0·11	+ ·006
1064	Cape 1860	50	22 3 34·87	36·96	58·69	12·5	36·99	36·77	— 0·22	— ·013
...	Cape 1865	20	22 4 45·36	36·60	62·79	9·1	36·63	36·59	— 0·04	— ·002
1123	Melbourne 1870	40	22 5 54·92	36·24	68·0	7·9	36·27	36·37	+ 0·10	+ ·006
30380	Cordoba 1875	278	22 7 3·69	35·99	77·33	3·9	35·99	35·96	— 0·03	— ·002
11665	Cape 1880	39	22 8 12·24	36·38	73·28	11·7	36·41	36·14	— 0·27	— ·016
1085	Melbourne 1880	50	22 8 11·97	36·11	74·42	12·5	36·13	36·09	— 0·04	— ·002
94	Cape, App. I.....1885	32	22 9 18·76	35·62	84·34	11·0	35·62	35·66	+ 0·04	+ ·002
...	Cape 1895	26	22 11 30·09	34·89	95·39	10·2	34·89	35·18	+ 0·29	+ ·018
				h m s	s					
			1900. α =	22 12 34·98	— 0·0433 (t — 1900).					
			Probable Error	± 0·09	± 0·0021 (t — 1900).					
24.	**τ Octantis.—Right Ascension.**									
			h m s	h m s			s	s	s	s
578	Johnson 1830	13	22 57 40·30	23 13 6·70	1830·	3·7	6·68	8·19	+ 1·51	+ 0·042
4	Henderson 1833	27	22 58 29·99	8·38	33·	10·3	8·44	8·25	— 0·19	— ·005
2828	Cape 1840	74	23 0 17·47	8·14	37·41	6·8	8·16	8·33	+ 0·17	+ ·005
4643	Cape 1850	29	23 2 45·33	9·28	52·37	2·7	9·31	8·60	— 0·71	— ·021
1125	Cape 1860	104	23 5 3·25	8·91	58·52	14·3	8·94	8·72	— 0·22	— ·007
...	Cape 1865	52	23 6 9·35	8·64	63·76	12·6	8·67	8·81	+ 0·14	+ ·004
1182	Melbourne 1870	63	23 7 14·02	8·70	67·5	8·7	8·73	8·88	+ 0·15	+ ·005
31530	Cordoba 1875	172	23 8 17·20	8·95	76·86	3·8	8·95	9·05	+ 0·10	+ ·003
12069	Cape 1880	32	23 9 18·94	9·33	73·30	11·0	9·36	8·99	— 0·37	— ·012
1145	Melbourne 1880	51	23 9 18·86	9·25	75·78	12·5	9·27	9·03	— 0·24	— ·008
98	Cape, App. I.....1885	35	23 10 18·83	9·47	84·68	11·3	9·47	9·20	— 0·27	— ·009
...	Cape 1895	24	23 12 13·14	8·65	95·46	10·0	8·65	9·40	+ 0·75	+ ·025
				h m s	s					
			1900. α =	23 13 9·48	+ 0·0184 (t — 1900).					
			Probable Error	± 0·19	± 0·0049 (t — 1900).					

Number in Catalogue.	Catalogue and Equinox.	Number of Observations.	Catalogue Dec. without Proper Motion.	Preliminary Reduction of Observed Dec. to 1900.	Epoch of Observation.	Weight.	Observed Seconds of Dec. finally Corrected to 1900.	Computed Seconds of Dec. from final Results.	C — O.
B Octantis.—Declination.									**22.**
			° ′ ″	° ′ ″			″	″	″
496	Johnson 1830	34	— 89 34 0·8	— 89 19 1·72	1830·	5·6	1·72	0·76	+ 0·96
1	Henderson 1833	65	— 89 33 35·9	0·30	33·	13·2	0·30	0·86	— 0·56
2590	Cape 1840	170	— 89 32 35·37	1·11	36·67	7·5	1·11	0·99	+ 0·12
4030	Cape 1850	0	.....	.....	...	...	...	...	...
982	Cape 1860	64	— 89 28 51·95	1·71	58·99	13·2	1·71	1·74	— 0·03
...	Cape 1865	49	— 89 27 46·99	1·90	63·22	12·4	1·90	1·88	+ 0·02
1067	Melbourne 1870	68	— 89 26 39·06	2·14	68·0	8·9	2·14	2·04	+ 0·10
29042	Cordoba 1875	89	— 89 25 28·27	2·19	78·0	7·0	2·19	2·38	— 0·19
11301	Cape 1880	76	— 89 24 15·19	2·39	74·17	13·7	2·39	2·25	+ 0·14
1045	Melbourne.....1880	68	— 89 24 15·10	2·30	75·42	13·4	2·30	2·29	+ 0·01
91	Cape App. I. 1885	20	— 89 22 59·99	2·63	86·36	9·1	2·63	2·66	— 0·03
...	Cape 1895	28	— 89 20 23·70	2·92	95·37	10·5	2·92	2·96	— 0·04
				° ′ ″	″				
			1900. δ =	— 89 19 3·12	— 0·034 (t — 1900).				
			Probable Error	± 0·13	± 0·003 (t — 1900).				
C Octantis.—Declination.									**23.**
			° ′ ″	° ′ ″			″	″	″
549	Johnson 1830	19	— 86 49 8·8	— 86 28 39·26	1830·	4·4	39·26	38·57	+ 0·69
7	Henderson 1833	52	— 86 48 15·8	37·92	33·	12·6	37·92	38·35	— 0·43
2753	Cape 1840	96	— 86 46 15·03	38·07	36·75	7·1	38·07	38·09	— 0·02
1064	Cape 1860	57	— 86 40 24·91	36·39	58·46	12·9	36·39	36·56	— 0·17
...	Cape 1865	22	— 86 38 57·64	36·87	62·84	9·5	36·87	36·25	+ 0·62
1123	Melbourne.....1870	50	— 86 37 28·32	35·54	68·2	8·3	35·54	35·86	— 0·32
30380	Cordoba 1875	220	— 86 35 59·99	35·45	77·25	7·8	35·45	35·23	+ 0·22
11665	Cape 1880	97	— 86 34 31·79	35·69	74·36	14·2	35·69	35·43	+ 0·26
1085	Melbourne 1880	61	— 86 34 31·23	35·13	75·44	13·1	35·13	35·36	— 0·23
94	Cape, App. I.....1885	16	— 86 33 2·35	34·95	84·90	8·3	34·95	34·69	+ 0·26
...	Cape 1895	43	— 86 30 3·38	34·04	95·50	12·0	34·04	33·95	+ 0·09
				° ′ ″	″				
			1900. δ =	— 86 28 33·63	+ 0·070 (t — 1900).				
			Probable Error	± 0·15	± 0·004 (t — 1900).				
τ Octantis.—Declination.									**24.**
			° ′ ″	° ′ ″			″	″	″
578	Johnson 1830	27	— 88 24 38·2	— 88 1 53·50	1830·	5·2	53·50	53·58	— 0·08
4	Henderson 1833	58	— 88 23 40·2	53·48	33·	12·9	53·48	53·55	— 0·07
2828	Cape 1840	232	— 88 21 24·84	53·64	36·48	7·8	53·64	53·51	+ 0·13
4643	Cape 1850	0	.....	.....	...	...	...	...	...
1125	Cape 1860	126	— 88 14 55·77	53·23	58·25	14·5	53·23	53·28	— 0·05
...	Cape 1865	69	— 88 13 18·72	53·66	63·62	13·4	53·66	53·23	+ 0·43
1182	Melbourne 1870	85	— 88 11 40·37	52·87	67·4	9·3	52·87	53·19	— 0·32
31530	Corboda 1875	146	— 88 10 2·96	53·16	76·41	7·4	53·16	53·10	+ 0·06
12069	Cape 1880	66	— 88 8 25·10	53·06	74·47	13·3	53·06	53·12	— 0·06
1145	Melbourne 1880	56	— 88 8 24·97	52·93	75·09	12·8	52·93	53·11	— 0·18
98	Cape, App. I.....1885	24	— 88 6 47·20	53·04	85·28	10·0	53·04	53·00	+ 0·04
...	Cape 1895	27	— 88 3 31·08	52·94	95·53	10·3	52·94	52·90	+ 0·04
				° ′ ″	″				
			1900. δ =	— 88 1 52·85	+ 0·010 (t — 1900).				
			Probable Error	± 0·08	± 0·002 (t — 1900).				

Equinox and Epoch.	o Octantis.		Lacaille 634.		Lacaille 1029.		Lacaille 1848.		Equinox and Epoch.
	Mean Right Ascension.	Mean Declination.	Mean Right Ascension.	Mean Declination.	Mean Right Ascension.	Mean Declination.	Mean Right Ascension.	Mean Declination.	
	h m s	° ′ ″	h m s	° ′ ″	h m s	° ′ ″	h m s	° ′ ″	
1875	0 12 57·52	−89 3 28·92	1 44 50·40	−85 24 0·35	2 39 34·08	−86 16 9·03	3 19 47·35	−88 39 56·01	1875
1880	12 50·39	1 48·79	44 29·28	22 30·24	38 43·96	14 51·98	16 25·64	38 51·07	1880
1885	12 44·08	−89 0 8·67	44 8·46	21 0·06	37 54·47	13 34·69	13 9·50	37 45·05	1885
1890	12 38·53	−88 58 28·54	43 47·95	19 29·81	37 5·62	12 17·18	9 58·77	36 37·97	1890
1895	12 33·68	56 48·42	43 27·75	17 59·51	36 17·42	10 59·44	6 53·33	35 29·87	1895
1896	0 12 32·78	−88 56 28·39	1 43 23·75	−85 17 41·44	2 36 7·86	−86 10 43·87	3 6 16·87	−88 35 16·14	1896
1897	12 31·92	56 8·37	43 19·76	17 23·37	35 58·33	10 28·29	5 40·61	35 2·36	1897
1898	12 31·08	55 48·35	43 15·78	17 5·29	35 48·82	10 12·70	5 4·56	34 48·55	1898
1899	12 30·26	55 28·33	43 11·81	16 47·22	35 39·33	9 57·10	4 28·71	34 34·70	1899
1900	12 29·47	55 8·31	43 7·85	16 29·14	35 29·87	9 41·49	3 53·06	34 20·81	1900
1901	0 12 28·70	−88 54 48·29	1 43 3·90	−85 16 11·06	2 35 20·43	−86 9 25·87	3 3 17·62	−88 34 6·89	1901
1902	12 27·96	54 28·27	42 59·97	15 52·98	35 11·02	9 10·25	2 42·37	33 52·93	1902
1903	12 27·24	54 8·24	42 56·05	15 34·89	35 1·64	8 54·62	2 7·32	33 38·93	1903
1904	12 26·54	53 48·22	42 52·14	15 16·81	34 52·28	8 38·98	1 32·46	33 24·90	1904
1905	12 25·86	53 28·19	42 48·24	14 58·72	34 42·94	8 23·33	0 57·81	33 10·82	1905
1906	0 12 25·20	−88 53 8·17	1 42 44·35	−85 14 40·62	2 34 33·62	−86 8 7·67	3 0 23·36	−88 32 56·71	1906
1907	12 24·57	52 48·15	42 40·48	14 22·53	34 24·33	7 52·00	2 59 49·10	32 42·57	1907
1908	12 23·96	52 28·12	42 36·61	14 4·43	34 15·07	7 36·33	59 15·04	32 28·39	1908
1909	12 23·37	52 8·10	42 32·76	13 46·33	34 5·83	7 20·64	58 41·16	32 14·18	1909
1910	12 22·81	51 48·08	42 28·92	13 28·23	33 56·61	7 4·95	58 7·46	31 59·93	1910
1911	0 12 22·26	−88 51 28·05	1 42 25·09	−85 13 10·13	2 33 47·42	−86 6 49·24	2 57 33·97	−88 31 45·65	1911
1912	12 21·73	51 8·03	42 21·27	12 52·02	33 38·25	6 33·53	57 0·66	31 31·33	1912
1913	12 21·23	50 48·01	42 17·46	12 33·91	33 29·11	6 17·81	56 27·54	31 16·98	1913
1914	12 20·74	50 27·99	42 13·67	12 15·80	33 19·99	6 2·09	55 54·60	31 2·60	1914
1915	12 20·27	50 7·96	42 9·88	11 57·69	33 10·89	5 46·36	55 21·85	30 48·18	1915
1916	0 12 19·82	−88 49 47·94	1 42 6·12	−85 11 39·57	2 33 1·82	−86 5 30·62	2 54 49·28	−88 30 33·74	1916
1917	12 19·39	49 27·92	42 2·35	11 21·45	32 52·77	5 14·87	54 16·90	30 19·25	1917
1918	12 18·98	49 7·90	41 58·60	11 3·33	32 43·75	4 59·11	53 44·70	30 4·73	1918
1919	12 18·59	48 47·88	41 54·86	10 45·21	32 34·75	4 43·34	53 12·69	29 50·18	1919
1920	12 18·21	48 27·86	41 51·15	10 27·09	32 25·77	4 27·57	52 40·85	29 35·61	1920

	Proper Motion.		Probable Error.		Proper Motion.		Probable Error.		Proper Motion.		Probable Error.		Proper Motion.		Probable Error.		
	$\frac{da}{dt}$	$\frac{d\delta}{dt}$	$\Delta\alpha$	$\Delta\delta$	$\frac{da}{dt}$	$\frac{d\delta}{dt}$	$\Delta\alpha$	$\Delta\delta$	$\frac{da}{dt}$	$\frac{d\delta}{dt}$	$\Delta\alpha$	$\Delta\delta$	$\frac{da}{dt}$	$\frac{d\delta}{dt}$	$\Delta\alpha$	$\Delta\delta$	
	s	″	s	″	s	″	s	″	s	″	s	″	s	″	s	″	
1880	+0·0069	+0·001	±0·10	±0·03	+0·0104	+0·023	±0·02	±0·08	−0·0185	+0·001	±0·04	±0·09	−0·0494	−0·031	±0·23	±0·05	1880
1890	+0·0065	+0·001	±0·13	±0·05			±0·04	±0·13			±0·05	±0·10			±0·28	±0·06	1890
1900	+0·0062	+0·001	±0·16	±0·07	+0·0104	+0·023	±0·06	±0·21	−0·0181	+0·001	±0·08	±0·16	−0·0516	−0·030	±0·46	±0·10	1900
1910	+0·0060	+0·001	±0·20	±0·09			±0·08	±0·30			±0·12	±0·23			±0·67	±0·15	1910
1920	+0·0056	+0·001	±0·24	±0·11	+0·0104	+0·023	±0·11	±0·38	−0·0177	+0·001	±0·16	±0·31	−0·0529	−0·029	±0·90	±0·20	1920

Equinox and Epoch.	Lacaille 1707.		Lacaille 2296.		Lacaille 2512.		Lacaille 3274.		Equinox and Epoch.
	Mean Right Ascension.	Mean Declination.	Mean Right Ascension.	Mean Declination.	Mean Right Ascension.	Mean Declination.	Mean Right Ascension.	Mean Declination.	
	h m s	° ′ ″	h m s	° ′ ″	h m s	° ′ ″	h m s	° ′ ″	
1875	4 37 31·69	−83 9 55·28	5 54 26·82	−84 50 25·98	6 12 42·41	−85 55 32·31	7 30 8·65	−86 49 7·61	1875
1880	36 54·84	9 19·77	53 28·13	50 22·91	11 23·92	55 37·55	28 32·52	49 45·68	1880
1885	36 18·10	8 44·01	52 29·46	50 19·40	10 5·38	55 42·23	26 55·70	50 23·10	1885
1890	35 41·48	8 8·00	51 30·81	50 15·47	8 46·80	55 46·35	25 18·21	50 59·86	1890
1895	35 5·00	7 31·75	50 32·19	50 11·11	7 28·17	55 49·89	23 40·05	51 35·96	1895
1896	4 34 57·72	−83 7 24·47	5 50 20·46	−84 50 10·19	6 7 12·43	−85 55 50·53	7 23 20·34	−86 51 43·10	1896
1897	34 50·45	7 17·18	50 8·74	50 9·25	6 56·70	55 51·14	23 0·61	51 50·21	1897
1898	34 43·19	7 9·88	49 57·03	50 8·29	6 40·97	55 51·73	22 40·84	51 57·29	1898
1899	34 35·93	7 2·57	49 45·32	50 7·32	6 25·24	55 52·30	22 21·05	52 4·35	1899
1900	34 28·67	6 55·25	49 33·61	50 6·33	6 9·50	55 52·85	22 1·23	52 11·38	1900
1901	4 34 21·42	−83 6 47·92	5 49 21·90	−84 50 5·32	6 5 53·76	−85 55 53·37	7 21 41·38	−86 52 18·39	1901
1902	34 14·17	6 40·58	49 10·19	50 4·30	5 38·03	55 53·88	21 21·51	52 25·36	1902
1903	34 6·94	6 33·23	48 58·48	50 3·26	5 22·29	55 54·35	21 1·61	52 32·31	1903
1904	33 59·70	6 25·87	48 46·77	50 2·20	5 6·55	55 54·81	20 41·69	52 39·23	1904
1905	33 52·47	6 18·50	48 35·07	50 1·13	4 50·81	55 55·24	20 21·74	52 46·13	1905
1906	4 33 45·24	−83 6 11·12	5 48 23·77	−84 50 0·30	6 4 35·06	−85 55 55·65	7 20 1·76	−86 52 52·99	1906
1907	33 38·02	6 3·73	48 11·67	49 58·92	4 19·32	55 56·03	19 41·76	52 59·83	1907
1908	33 30·81	5 56·33	47 59·98	49 57·80	3·58	55 56·40	19 21·73	53 6·65	1908
1909	33 23·60	5 48·93	47 48·28	49 56·65	3 47·83	55 56·74	19 1·67	53 13·43	1909
1910	33 16·39	5 41·50	47 36·58	49 55·49	3 32·10	55 57·05	18 41·59	53 20·19	1910
1911	4 33 9·19	−83 5 34·08	5 47 24·89	−84 49 54·31	6 3 16·35	−85 55 57·33	7 18 21·48	−86 53 26·92	1911
1912	33 1·99	5 26·64	47 13·19	49 53·11	3 0·61	55 57·60	18 1·36	53 33·62	1912
1913	32 54·81	5 19·19	47 1·50	49 51·90	2 44·86	55 57·85	17 41·20	53 40·29	1913
1914	32 47·62	5 11·74	46 49·81	49 50·68	2 29·11	55 58·08	17 21·02	53 46·94	1914
1915	32 40·45	5 4·27	46 38·12	49 49·43	2 13·37	55 58·28	17 0·81	53 53·56	1915
1916	4 32 33·27	−83 4 56·79	5 46 26·44	−84 49 48·17	6 1 57·62	−85 55 58·46	7 16 40·57	−86 54 0·15	1916
1917	32 26·10	4 49·31	46 14·75	49 46·89	1 41·87	55 58·61	16 20·31	54 6·71	1917
1918	32 18·94	4 41·81	46 3·07	49 45·59	1 26·12	55 58·74	16 0·02	54 13·25	1918
1919	32 11·78	4 34·31	45 51·39	49 42·28	1 10·37	55 58·85	15 39·71	54 19·75	1919
1920	32 4·63	4 26·79	45 39·71	49 42·94	0 54·62	55 58·94	15 19·38	54 26·23	1920

	Proper Motion.		Probable Error		Proper Motion.		Probable Error.		Proper Motion.		Probable Error.		Proper Motion.		Probable Error.		
	$\frac{da}{dt}$	$\frac{d\delta}{dt}$	Δa	$\Delta\delta$	$\frac{da}{dt}$	$\frac{d\delta}{dt}$	Δa	$\Delta\delta$	$\frac{da}{dt}$	$\frac{d\delta}{dt}$	Δa	$\Delta\delta$	$\frac{da}{dt}$	$\frac{d\delta}{dt}$	Δa	$\Delta\delta$	
	s	″	s	″	s	″	s	″	s	″	s	″	s	″	s	″	
1880	−0·0185	+0·015	±0·06	±0·10	−0·0117	+0·086	±0·05	±0·14	−0·0221	+0·004	±0·04	±0·10	−0·0088	+0·007	±0·06	±0·10	1880
1890			±0·08	±0·17			±0·06	±0·18			±0·06	±0·17			±0·09	±0·18	1890
1900	−0·0183	+0·015	±0·12	±0·28	−0·0103	+0·086	±0·09	±0·30	−0·0221	+0·004	±0·09	±0·27	−0·0087	+0·007	±0·15	±0·29	1900
1910			±0·17	±0·40			±0·13	±0·44			±0·13	±0·38			±0·22	±0·41	1910
1920	−0·0181	+0·015	±0·23	±0·53	−0·0089	+0·086	±0·17	±0·58	−0·0220	+0·005	±0·16	±0·48	−0·0085	+0·007	±0·28	±0·54	1920

Equinox and Epoch.	A Octantis.		ζ Octantis.		Lacaille 4510.		η Octantis.		Equinox and Epoch.
	Mean Right Ascension.	Mean Declination.	Mean Right Ascension.	Mean Declination.	Mean Right Ascension.	Mean Declination.	Mean Right Ascension.	Mean Declination.	
	h m s	° ′ ″	h m s	° ′ ″	h m s	° ′ ″	h m s	° ′ ″	
1875	8 10 35·06	−88 30 10·87	9 14 25·96	−85 9 34·09	10 38 8·26	−85 26 31·63	11 0 7·58	−83 55 17·06	1875
1880	7 12·79	31 4·29	13 48·39	10 49·01	37 54·14	28 5·64	0 6·40	56 53·93	1880
1885	3 46·33	31 56·45	13 10·43	12 3·75	37 39·76	29 39·62	0 5·16	−83 58 30·80	1885
1890	0 15·66	32 47·30	12 32·07	13 18·30	37 25·13	31 13·56	0 3·84	−84 0 7·66	1890
1895	7 56 40·77	33 36·80	11 53·32	14 32·65	37 10·24	32 47·46	0 2·44	1 44·51	1895
1896	7 55 57·29	−88 33 46·54	9 11 45·52	−85 14 47·50	10 37 7·23	−85 33 6·24	11 0 2·15	−84 2 3·88	1896
1897	55 13·64	33 56·22	11 37·70	15 2·34	37 4·21	33 25·01	0 1·86	2 23·25	1897
1898	54 29·83	34 5·84	11 29·87	15 17·17	37 1·19	33 43·78	0 1·56	2 42·62	1898
1899	53 45·84	34 15·41	11 22·02	15 31·99	36 58·15	34 2·55	0 1·27	3 1·99	1899
1900	53 1·68	34 24·92	11 14·16	15 46·81	36 55·09	34 21·32	0 0·96	3 21·36	1900
1901	7 52 17·35	−88 34 34·38	9 11 6·28	−85 16 1·62	10 36 52·02	−85 34 40·09	11 0 0·65	−84 3 40·73	1901
1902	51 32·85	34 43·77	10 58·38	16 16·42	36 48·94	34 58·85	0 0·34	4 0·10	1902
1903	50 48·20	34 53·11	10 50·47	16 31·21	36 45·86	35 17·61	0 0·02	4 19·47	1903
1904	50 3·37	35 2·39	10 42·54	16 46·00	36 42·76	35 36·38	10 59 59·71	4 38·83	1904
1905	49 18·36	35 11·62	10 34·60	17 0·77	36 39·66	35 55·14	59 59·39	4 58·20	1905
1906	7 48 33·19	−88 35 20·78	9 10 26·64	−85 17 15·54	10 36 36·53	−85 36 13·89	10 59 59·06	−84 5 17·58	1906
1907	47 47·85	35 29·89	10 18·66	17 30·30	36 33·41	36 32·65	59 58·73	5 36·95	1907
1908	47 2·34	35 38·94	10 10·66	17 45·05	36 30·27	36 51·40	59 58·40	5 56·31	1908
1909	46 16·67	35 47·93	10 2·65	17 59·80	36 27·12	37 10·16	59 58·07	6 15·68	1909
1910	45 30·84	35 56·86	9 54·62	18 14·53	36 23·95	37 28·91	59 57·74	6 35·04	1910
1911	7 44 44·82	−88 36 5·72	9 9 46·57	−85 18 29·26	10 36 20·78	−85 37 47·66	10 59 57·40	−84 6 54·41	1911
1912	43 58·64	36 14·53	9 38·51	18 43·98	36 17·60	38 6·40	59 57·05	7 13·78	1912
1913	43 12·30	36 23·28	9 30·43	18 58·69	36 14·40	38 25·15	59 56·71	7 33·15	1913
1914	42 25·80	36 31·97	9 22·34	19 13·40	36 11·19	38 43·89	59 56·35	7 52·51	1914
1915	41 39·13	36 40·59	9 14·23	19 28·09	36 7·97	39 2·63	59 56·00	8 11·88	1915
1916	7 40 52·28	−88 36 49·15	9 9 6·10	−85 19 42·77	10 36 4·75	−85 39 21·37	10 59 55·64	−84 8 31·24	1916
1917	40 5·27	36 57·65	8 57·95	19 57·45	36 1·51	39 40·11	59 55·28	8 50·61	1917
1918	39 18·10	37 6·09	8 49·78	20 12·12	35 58·26	39 58·85	59 54·92	9 9·97	1918
1919	38 30·76	37 14·47	8 41·60	20 26·78	35 54·99	40 17·58	59 54·56	9 29·34	1919
1920	37 43·26	37 22·78	8 33·41	20 41·44	35 51·71	40 36·31	59 54·18	9 48·71	1920

	Proper Motion.		Probable Error.		Proper Motion.		Probable Error.		Proper Motion.		Probable Error.		Proper Motion.		Probable Error.		
	$\frac{da}{dt}$	$\frac{d\delta}{dt}$	Δa	$\Delta\delta$	$\frac{da}{dt}$	$\frac{d\delta}{dt}$	Δa	$\Delta\delta$	$\frac{da}{dt}$	$\frac{d\delta}{dt}$	Δa	$\Delta\delta$	$\frac{da}{dt}$	$\frac{d\delta}{dt}$	Δa	$\Delta\delta$	
	s	″	s	″	s	″	s	″	s	″	s	″	s	″	s	″	
1880	−0·0291	+0·009	±0·09	±0·03	−0·1092	+0·043	±0·04	±0·08	−0·0075	−0·018	±0·04	±0·13	−0·0545	0·000	±0·01	±0·03	1880
1890			±0·11	±0·07			±0·06	±0·11			±0·05	±0·16			±0·02	±0·06	1890
1900	−0·0282	+0·010	±0·14	±0·10	−0·1105	+0·045	±0·09	±0·16	−0·0078	−0·018	±0·07	±0·26	−0·0555	0·000	±0·04	±0·09	1900
1910			±0·17	±0·13			±0·12	±0·21			±0·10	±0·38			±0·06	±0·13	1910
1920	−0·0272	+0·011	±0·20	±0·16	−0·1118	+0·047	±0·16	±0·27	−0·0081	−0·018	±0·13	±0·50	−0·0565	0·000	±0·07	±0·17	1920

Equinox and Epoch.	ι Octantis.		κ Octantis.		ζ Octantis.		ρ Octantis.		Equinox and Epoch.
	Mean Right Ascension.	Mean Declination.	Mean Right Ascension.	Mean Declination.	Mean Right Ascension.	Mean Declination.	Mean Right Ascension.	Mean Declination.	
	h m s	° ′ ″	h m s	° ′ ″	h m s	° ′ ″	h m s	° ′ ″	
1875	12 42 3·94	−84 26 36·88	13 21 6·05	−85 8 35·39	14 29 12·13	−87 37 56·88	15 14 47·68	−84 2 30·61	1875
1880	42 32·13	28 15·31	21 48·47	10 9·48	31 5·55	39 16·68	15 51·73	3 36·20	1880
1885	43 0·51	29 53·70	22 31·28	11 43·46	33 0·99	40 35·97	16 56·14	4 41·45	1885
1890	43 29·09	31 32·05	23 14·48	13 17·34	34 58·48	41 54·74	18 0·89	5 46·35	1890
1895	43 57·88	33 10·35	23 58·07	14 51·10	36 58·07	43 12·97	19 5·99	6 50·88	1895
1896	12 44 3·67	−84 33 30·00	13 24 6·83	−85 15 9·84	14 37 22·24	−87 43 28·56	15 19 19·05	−84 7 3·75	1896
1897	44 9·46	33 49·65	24 15·61	15 28·57	37 46·50	43 44·12	19 32·13	7 16·59	1897
1898	44 15·26	34 9·30	24 24·41	15 47·30	38 10·85	43 59·65	19 45·22	7 29·42	1898
1899	44 21·07	34 28·95	24 33·22	16 6·02	38 35·28	44 15·16	19 58·32	7 42·24	1899
1900	44 26·89	34 48·60	24 42·05	16 24·74	38 59·80	44 30·65	20 11·44	7 55·04	1900
1901	12 44 32·72	−84 35 8·25	13 24 50·89	−85 16 43·45	14 39 24·41	−87 44 46·12	15 20 24·57	−84 8 7·83	1901
1902	44 38·55	35 27·89	24 59·75	17 2·16	39 49·10	45 1·56	20 37·72	8 20·60	1902
1903	44 44·40	35 47·53	25 8·63	17 20·87	40 13·89	45 16·98	20 50·88	8 33·36	1903
1904	44 50·25	36 7·17	25 17·52	17 39·56	40 38·76	45 32·38	21 4·05	8 46·10	1904
1905	44 56·12	36 26·82	25 26·43	17 58·26	41 3·72	45 47·76	21 17·23	8 58·82	1905
1906	12 45 1·99	−84 36 46·46	13 25 35·36	−85 18 16·95	14 41 28·78	−87 46 3·11	15 21 30·43	−84 9 11·54	1906
1907	45 7·87	37 6·10	25 44·30	18 35·63	41 53·92	46 18·44	21 43·65	9 24·23	1907
1908	45 13·76	37 25·73	25 53·26	18 54·31	42 19·16	46 33·74	21 56·88	9 36·92	1908
1909	45 19·66	37 45·36	26 2·23	19 12·99	42 44·48	46 49·02	22 10·12	9 49·58	1909
1910	45 25·56	38 4·99	26 11·22	19 31·66	43 9·87	47 4·28	22 23·38	10 2·24	1910
1911	12 45 31·48	−84 38 24·62	13 26 20·23	−85 19 50·32	14 43 35·37	−87 47 19·50	15 22 36·65	−84 10 14·88	1911
1912	45 37·40	38 44·25	26 29·25	20 8·98	44 0·97	47 34·71	22 49·94	10 27·50	1912
1913	45 43·33	39 3·87	26 38·30	20 27·64	44 26·66	47 49·90	23 3·24	10 40·11	1913
1914	45 49·27	39 23·50	26 47·35	20 46·29	44 52·44	48 5·06	23 16·56	10 52·70	1914
1915	45 55·22	39 43·12	26 56·42	21 4·94	45 18·31	48 20·19	23 29·89	11 5·28	1915
1916	12 46 1·18	−84 40 2·74	13 27 5·52	−85 21 23·58	14 45 44·28	−87 48 35·30	15 23 43·23	−84 11 17·84	1916
1917	46 7·15	40 22·36	27 14·62	21 42·21	46 10·34	48 50·38	23 56·59	11 30·39	1917
1918	46 13·13	40 41·97	27 23·75	22 0·84	46 36·50	49 5·44	24 9·96	11 42·92	1918
1919	46 19·12	41 1·59	27 32·89	22 19·47	47 2·74	49 20·47	24 23·35	11 55·43	1919
1920	46 25·11	41 21·20	27 42·04	22 38·09	47 29·08	49 35·48	24 36·75	12 7·93	1920

	Proper Motion.		Probable Error.		Proper Motion.		Probable Error.		Proper Motion.		Probable Error.		Proper Motion.		Probable Error.		
	$\frac{da}{dt}$	$\frac{d\delta}{dt}$	$\Delta\alpha$	$\Delta\delta$	$\frac{da}{dt}$	$\frac{d\delta}{dt}$	$\Delta\alpha$	$\Delta\delta$	$\frac{da}{dt}$	$\frac{d\delta}{dt}$	$\Delta\alpha$	$\Delta\delta$	$\frac{da}{dt}$	$\frac{d\delta}{dt}$	$\Delta\alpha$	$\Delta\delta$	
	s	″	s	″	s	″	s	″	s	″	s	″	s	″	s	″	
1880	+0·0346	+0·029	±0·02	±0·09	−0·0754	−0·017	±0·05	±0·02	−0·1823	−0·058	±0·07	±0·06	+0·0812	+0·080	±0·02	±0·06	1880
1890			±0·02	±0·12			±0·06	±0·07	−0·1844	−0·059	±0·09	±0·10			±0·03	±0·08	1890
1900	+0·0352	+0·029	±0·03	±0·16	−0·0770	−0·018	±0·09	±0·12	−0·1863	−0·061	±0·11	±0·14	+0·0814	+0·082	±0·05	±0·11	1900
1910			±0·04	±0·21			±0·12	±0·17	−0·1881	−0·063	±0·14	±0·18			±0·07	±0·15	1910
1920	+0·0358	+0·029	±0·05	±0·27	−0·0786	−0·019	±0·15	±0·22	−0·1899	−0·065	±0·16	±0·22	+0·0816	+0·084	±0·09	±0·18	1920

Equinox and Epoch.	Lacaille 6545 (Brisbane 5607). Mean Right Ascension.	Mean Declination.	χ Octantis (Brisbane 6058). Mean Right Ascension.	Mean Declination.	σ Octantis. Mean Right Ascension.	Mean Declination.	Lacaille 8094. Mean Right Ascension.	Mean Declination.	Equinox and Epoch.
	h m s	° ′ ″	h m s	° ′ ″	h m s	° ′ ″	h m s	° ′ ″	
1875	16 14 48·42	−86 7 9·51	17 41 13·33	−87 39 23·49	18 15 26·92	−89 16 38·52	19 32 52·05	−81 39 23·08	1875
1880	16 32·42	7 53·53	44 11·05	39 31·66	24 29·80	16 29·83	33 49·19	38 43·34	1880
1885	18 17·02	8 36·86	47 9·05	39 38·53	33 28·34	16 17·21	34 46·20	38 3·20	1885
1890	20 2·23	9 19·49	50 7·30	39 44·10	42 21·02	16 0·72	35 43·08	37 22·68	1890
1895	21 48·02	10 1·43	53 5·75	39 48·39	51 6·43	15 40·44	36 39·83	36 41·79	1895
1896	16 22 9·25	−86 10 9·74	17 53 41·46	−87 39 49·09	18 52 50·54	−89 15 35·94	19 36 51·16	−81 36 33·56	1896
1897	22 30·51	10 18·01	54 17·17	39 49·74	54 34·28	15 31·28	37 2·49	36 25·33	1897
1898	22 51·79	10 26·26	54 52·89	39 50·34	56 17·65	15 26·48	37 13·81	36 17·07	1898
1899	23 13·09	10 34·48	55 28·61	39 50·89	58 0·66	15 21·54	37 25·13	36 8·80	1899
1900	23 34·41	10 42·67	56 4·34	39 51·38	59 43·28	15 16·45	37 36·44	36 0·52	1900
1901	16 23 55·76	−86 10 50·83	17 56 40·07	−87 39 51·82	19 1 25·52	−89 15 11·22	19 37 47·75	−81 35 52·22	1901
1902	24 17·13	10 58·97	57 15·80	39 52·21	3 7·36	15 5·84	37 59·05	35 43·91	1902
1903	24 38·52	11 7·07	57 51·54	39 52·55	4 48·79	15 0·32	38 10·34	35 35·58	1903
1904	24 59·94	11 15·15	58 27·28	39 52·84	6 29·82	14 54·66	38 21·63	35 27·24	1904
1905	25 21·38	11 23·20	59 3·01	39 53·07	8 10·42	14 48·85	38 32·92	35 18·88	1905
1906	16 25 42·84	−86 11 31·22	17 59 38·76	−87 39 53·26	19 9 50·59	−89 14 42·91	19 38 44·20	−81 35 10·51	1906
1907	26 4·33	11 39·21	18 0 14·50	39 53·39	11 30·33	14 36·83	38 55·47	35 2·12	1907
1908	26 25·84	11 47·17	0 50·24	39 53·46	13 9·62	14 30·61	39 6·74	34 53·72	1908
1909	26 47·38	11 55·10	1 25·99	39 53·49	14 48·47	14 24·25	39 18·00	34 45·30	1909
1910	27 8·93	12 3·00	2 1·73	39 53·46	16 26·85	14 17·76	39 29·26	34 36·87	1910
1911	16 27 30·51	−86 12 10·88	18 2 37·47	−87 39 53·39	19 18 4·78	−89 14 11·13	19 39 40·51	−81 34 28·42	1911
1912	27 52·12	12 18·72	3 13·22	39 53·26	19 42·24	14 4·36	39 51·76	34 19·96	1912
1913	28 13·75	12 26·54	3 48·96	39 53·08	21 19·22	13 57·47	40 3·00	34 11·48	1913
1914	28 35·40	12 34·33	4 24·70	39 52·84	22 55·72	13 50·44	40 14·24	34 2·99	1914
1915	28 57·07	12 42·09	5 0·43	39 52·56	24 31·73	13 43·28	40 25·47	33 54·49	1915
1916	16 29 18·77	−86 12 49·82	18 5 36·17	−87 39 52·22	19 26 7·26	−89 13 35·99	19 40 36·69	−81 33 45·96	1916
1917	29 40·48	12 57·52	6 11·90	39 51·83	27 42·29	13 28·57	40 47·91	33 37·43	1917
1918	30 2·22	13 5·19	6 47·62	39 51·39	29 16·81	13 21·02	40 59·13	33 28·88	1918
1919	30 23·99	13 12·83	7 23·35	39 50·89	30 50·83	13 13·34	41 10·34	33 20·31	1919
1920	30 45·78	13 20·45	7 59·07	39 50·35	32 24·34	13 5·54	41 21·54	33 11·73	1920

	Lacaille 6545 (Brisbane 5607). Proper Motion. $\frac{d\alpha}{dt}$	$\frac{d\delta}{dt}$	Probable Error. $\Delta\alpha$	$\Delta\delta$	χ Octantis (Brisbane 6058). Proper Motion. $\frac{d\alpha}{dt}$	$\frac{d\delta}{dt}$	Probable Error. $\Delta\alpha$	$\Delta\delta$	σ Octantis. Proper Motion. $\frac{d\alpha}{dt}$	$\frac{d\delta}{dt}$	Probable Error. $\Delta\alpha$	$\Delta\delta$	Lacaille 8094. Proper Motion. $\frac{d\alpha}{dt}$	$\frac{d\delta}{dt}$	Probable Error. $\Delta\alpha$	$\Delta\delta$	
	s	″	s	″	s	″	s	″	s	″	s	″	s	″	s	″	
1880	−0·0035	+0·014	±0·05	±0·11	−0·1228	−0·124	±0·09	±0·08	+0·0823	−0·007	±0·24	±0·04	−0·0077	+0·007	±0·04	±0·12	1880
1890			±0·07	±0·15	−0·1183	−0·124	±0·12	±0·10	+0·0839	−0·006	±0·30	±0·07			±0·05	±0·15	1890
1900	−0·0039	+0·014	±0·09	±0·21	−0·1136	−0·124	±0·16	±0·13	+0·0844	−0·004	±0·38	±0·10	−0·0077	+0·007	±0·07	±0·22	1900
1910			±0·12	±0·27	−0·1087	−0·126	±0·21	±0·17	+0·0840	−0·003	±0·47	±0·13			±0·10	±0·30	1910
1920	−0·0043	+0·014	±0·14	±0·34	−0·1037	−0·127	±0·26	±0·20	+0·0827	−0·002	±0·56	±0·16	−0·0077	+0·007	±0·12	±0·39	1920

Equinox and Epoch.	Lacaille 8257.		B Octantis.		C Octantis.		τ Octantis.		Equinox and Epoch.
	Mean Right Ascension.	Mean Declination.	Mean Right Ascension.	Mean Declination.	Mean Right Ascension.	Mean Declination.	Mean Right Ascension.	Mean Declination.	
	h m s	° ′ ″	h m s	° ′ ″	h m s	° ′ ″	h m s	° ′ ″	
1875	20 12 25·90	−84 49 28·84	21 3 51·36	−89 25 28·35	22 7 3·76	−86 35 59·92	23 8 17·28	−88 10 2·91	1875
1880	13 43·01	48 33·69	11 33·20	24 15·24	8 11·69	34 31·12	9 18·71	8 25·08	1880
1885	14 59·72	47 38·08	18 44·66	22 59·97	9 18·77	33 2·08	10 18·57	6 47·16	1885
1890	16 16·03	46 42·00	25 27·97	21 42·74	10 25·00	31 32·81	11 16·94	5 9·14	1890
1895	17 31·92	45 45·45	31 45·26	20 23·73	11 30·40	30 3·32	12 13·89	3 31·03	1895
1896	20 17 47·04	−84 45 34·08	21 32 57·77	−89 20 7·73	22 11 43·38	−86 29 45·40	23 12 25·12	−88 3 11·40	1896
1897	18 2·15	45 22·69	34 9·34	19 51·67	11 56·33	29 27·47	12 36·29	2 51·77	1897
1898	18 17·25	45 11·29	35 19·97	19 35·55	12 9·24	29 9·53	12 47·41	2 32·13	1898
1899	18 32·33	44 59·89	36 29·69	19 19·36	12 22·13	28 51·59	12 58·47	2 12·49	1899
1900	18 47·39	44 48·45	37 38·51	19 3·12	12 34·98	28 33·63	13 9·48	1 52·85	1900
1901	20 19 2·43	−84 44 37·00	21 38 46·44	−89 18 46·82	22 12 47·80	−86 28 15·67	23 13 20·44	−88 1 33·20	1901
1902	19 17·46	44 25·52	39 53·51	18 30·46	13 0·58	27 57·69	13 31·34	1 13·56	1902
1903	19 32·48	44 14·03	40 59·71	18 14·05	13 13·34	27 39·71	13 42·20	0 53·90	1903
1904	19 47·47	44 2·53	42 5·07	17 57·58	13 26·06	27 21·72	13 53·01	0 34·25	1904
1905	20 2·45	43 51·00	43 9·60	17 41·06	13 38·76	27 3·73	14 3·76	0 14·59	1905
1906	20 20 17·42	−84 43 39·46	21 44 13·32	−89 17 24·48	22 13 51·42	−86 26 45·72	23 14 14·46	−87 59 54·93	1906
1907	20 32·37	43 27·90	45 16·23	17 7·86	14 4·04	26 27·71	14 25·11	59 35·27	1907
1908	20 47·30	43 16·32	46 18·36	16 51·18	14 16·64	26 9·69	14 35·72	59 15·60	1908
1909	21 2·20	43 4·72	47 19·70	16 34·46	14 29·21	25 51·66	14 46·27	58 55·93	1909
1910	21 17·11	42 53·11	48 20·28	16 17·68	14 41·76	25 33·62	14 56·78	58 36·26	1910
1911	20 21 31·99	−84 42 41·47	21 49 20·11	−89 16 0·86	22 14 54·26	−86 25 15·58	23 15 7·24	−87 58 16·58	1911
1912	21 46·86	42 29·82	50 19·20	15 43·99	15 6·74	24 57·53	15 17·65	57 56·90	1912
1913	22 1·71	42 18·16	51 17·57	15 27·08	15 19·18	24 39·47	15 28·01	57 37·22	1913
1914	22 16·54	42 6·47	52 15·21	15 10·12	15 31·60	24 21·40	15 38·33	57 17·54	1914
1915	22 31·36	41 54·77	53 12·16	14 53·11	15 43·98	24 3·32	15 48·59	56 57·85	1915
1916	20 22 46·16	−84 41 43·05	21 54 8·40	−89 14 36·06	22 15 56·33	−86 23 45·23	23 15 58·82	−87 56 38·16	1916
1917	23 0·95	41 31·31	55 3·97	14 18·97	16 8·66	23 27·14	16 8·99	56 18·47	1917
1918	23 15·71	41 19·56	55 58·87	14 1·84	16 20·95	23 9·04	16 19·12	55 58·77	1918
1919	23 30·46	41 7·79	56 53·11	13 44·67	16 33·21	22 50·93	16 29·21	55 39·07	1919
1920	23 45·20	40 56·00	57 46·70	13 27·46	16 45·44	22 32·82	16 39·25	55 19·37	1920

	Proper Motion.		Probable Error.		Proper Motion.		Probable Error.		Proper Motion.		Probable Error.		Proper Motion.		Probable Error.		
	$\frac{da}{dt}$	$\frac{d\delta}{dt}$	Δa	$\Delta\delta$	$\frac{da}{dt}$	$\frac{d\delta}{dt}$	Δa	$\Delta\delta$	$\frac{da}{dt}$	$\frac{d\delta}{dt}$	Δa	$\Delta\delta$	$\frac{da}{dt}$	$\frac{d\delta}{dt}$	Δa	$\Delta\delta$	
	s	″	s	″	s	″	s	″	s	″	s	″	s	″	s	″	
1880	+0·0281	+0·031	±0·08	±0·13	−0·0408	−0·033	±0·16	±0·09	−0·0434	+0·070	±0·06	±0·08	+0·0197	+0·010	±0·11	±0·05	1880
1890			±0·07	±0·11	−0·0237	−0·034	±0·20	±0·11			±0·07	±0·12			±0·15	±0·06	1890
1900	+0·0274	+0·030	±0·12	±0·20	−0·0118	−0·034	±0·25	±0·13	−0·0433	+0·070	±0·09	±0·15	+0·0184	+0·010	±0·19	±0·08	1900
1910			±0·19	±0·32	−0·0031	−0·034	±0·31	±0·16			±0·11	±0·19			±0·24	±0·10	1910
1920	+0·0267	+0·030	±0·26	±0·45	+0·0042	−0·034	±0·36	±0·18	−0·0431	+0·070	±0·13	±0·23	+0·0174	+0·010	±0·28	±0·12	1920

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